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ALL THE NEWS.

HARDWARE

HARDWARE EXCLUSIVELY

A Review of the American Hardware Market.

Published Fortnightly by the HARDWARE PUBLISHING COMPANY, No. 143 Chambers St., New York.

VOL. XVI. No. 1. New York, October 10, 1897. $1.00 A YEAR.

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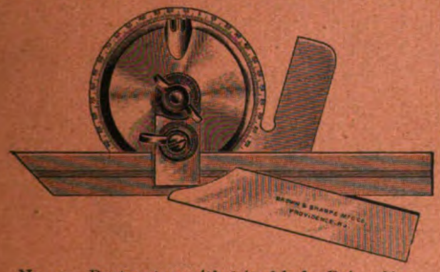
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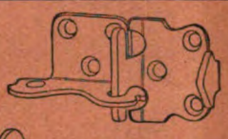


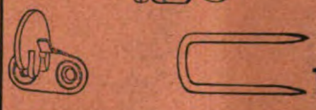
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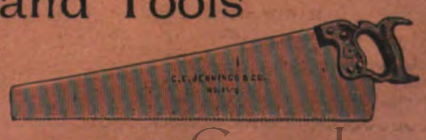
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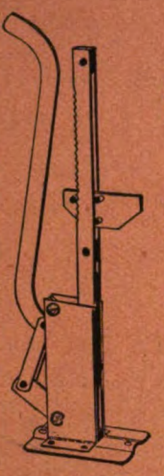
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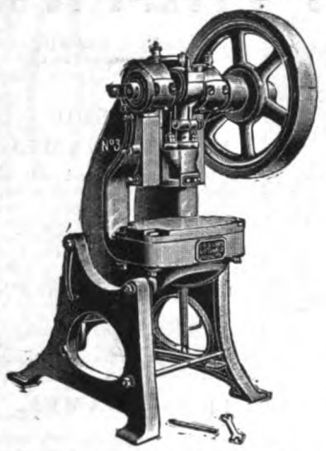
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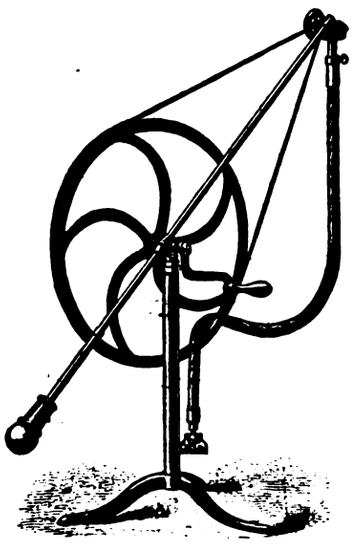
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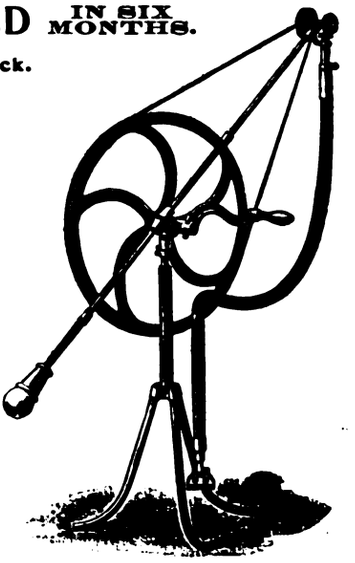
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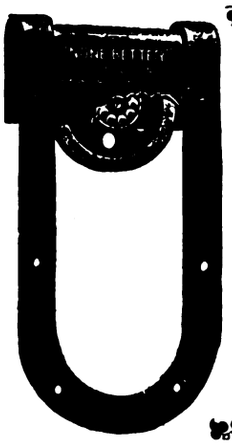
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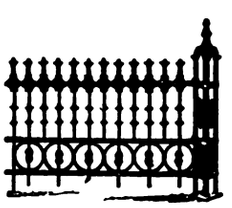
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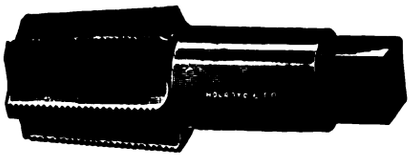
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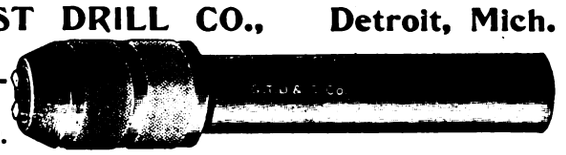
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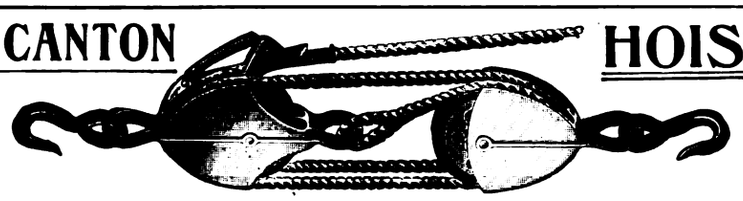
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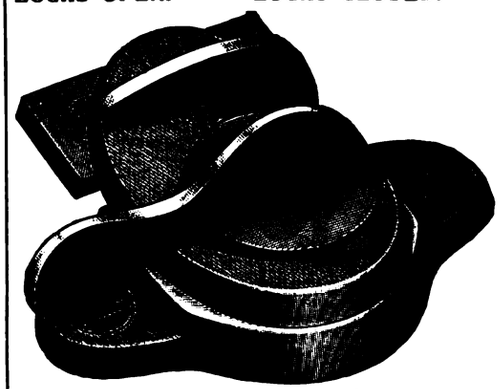
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In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

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Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

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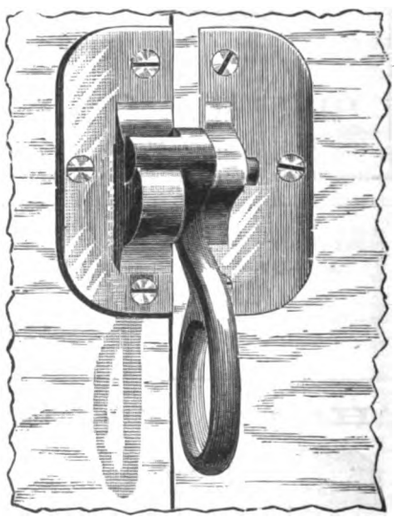
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NEW YORK.

We give below a list of goods which we have in stock. You will find our prices as low as any in the trade, quality considered. It will give us pleasure to receive your orders, which shall have our very best attention and prompt shipment.

Antimony
Babbit Metal
Bell's Edging Machines
Boiler Rods
Bottom's Seam Closer
Bucket Covers
Burritt's Double Seamers
Charcoal Sheet Iron
Chimney Cowls—
Bradbeer's Patent
Cold Rolled Iron
Common Sheet Iron.
Copper Bolts
Copper Bottoms
Copper Sheets and Circles
Copper Wire
Corrugated Leader, Galvanized Round & Square
Corrugated Leader, Tin Round and Square
Corrugated Leader, Elbows and Shoes to match Tin and Galvanized Leader
Crystal Stove Boards
Dampers & Damper Attachments
Dripping Pans
Eave Trough
Eave Gutter
Eave Trough Irons and Spikes
Elbows
Embossed Sheet Iron
Embossed Elbows and Pipe
Fire Pots
Galvanized Sheet Iron
Gutter Strainers
Hard Metal
Leader Hooks, Black and Tin'd
Lead
Little Wonder Punch
Lysle Cleat Former
Mallets
Malleable Ears



Mancer's Bench
Marking Metal
Metallic Paint
Milk Can Handle
Milk Can Trimming
Nails Roofing, ¾ and 1 inch.
Pail Woods
Perforated Tin
Planished Sheet Iron
R. G. Cleaned Sheet Iron
Ribbed Leader
Rivets
Roofing Tin
Roofing Cross Lock Seamers
Rosin
Russia Sheet Iron
Solder
Soldering Coppers
Spangler's Double Lock Edger
Spelter
Spelter Solder
Squaring Shears
Stereotype Metal
Stove Bolts
Stove Pipe
Stove Pipe Collars
Stove Pipe Crimper and Beader
Strainer Wire
Taggers' Iron
Taggers' Tin
Tin
Tin Plates
Tin Shingles
Tinned Tacks
Tinners' Machine
Tinners' Tools
Universal Chimney Cap
Wall Hooks
Water Cut-offs
Wire
Wire Nails, Barbed
Zinc Sheet
Zinc for Etching purposes
Zinc Stove Boards

...THE...

CHASE PUMP & MFG. CO.,

Manufacturers of the Most Complete Line of

DOUBLE-ACTING FORCE LIFT and WIND MILL

PUMPS



On the Market.

The ONLY Pump with ALUMINUM VALVE SEAT.

Write for Catalogue and Prices.

THE CHASE PUMP & MFG. CO.,

Mention this paper. COLUMBUS, OHIO.

BRANCH HOUSES:

SCOBIE & PARKER, Pittsburg, Pa.
PARLIN & ORENDORFF CO., St. Louis, Mo.



PITTSBURGH PUMP CO.

MANUFACTURERS OF ALL KINDS OF

FORCE LIFT SPRAY TANK PUMPS

SEND FOR CATALOGUE

322 LIBERTY ST. PITTSBURGH PA.

Catalogues Wanted. . .

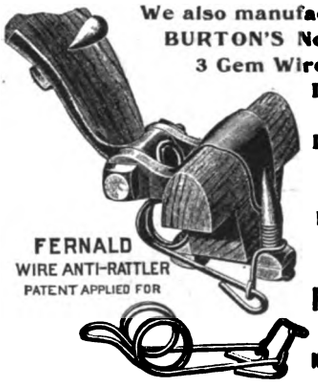
Wanted Manufacturers and Jobbers to send Catalogues of different lines of goods with best quantity, prices and terms. We close out jobs of all kinds FOR CASH. Send samples for approval. We handle big lines of 5 and 10 cent goods. . . . . .

WM. KLINE, New Orleans, La.

PROPRIETOR OF

Boston Twentieth Century Store.

Kline's Strictly 5 and 10 Cent Store.



We also manufacture the BURTON'S No. 1, 2 and 3 Gem Wire and Wire Drive Anti-Rattlers, Dandy Clothes Rack, and BECKER'S Game Traps.

Fernald Mfg. Co, NORTH EAST PA.

PLEASED with RESULTS.

John N. Hager, Fort Atkinson, Wis. [*Fork, Shovel, Rake and Hoe Brackets*]: Am well pleased with the results of my advertisement in HARDWARE.

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BUY ONLY THE BEST
at Prices to Beat the World.
MAKE NO MISTAKE.
40 years' reputation is guarantee enough as to the high standard of the BEST SAWS MADE.

Hand, Back, Butcher, Cross Cut, Wood, Circular, Mill and Band Saws, Celebrated W. & McP., Cincinnati, Plastering Trowels.

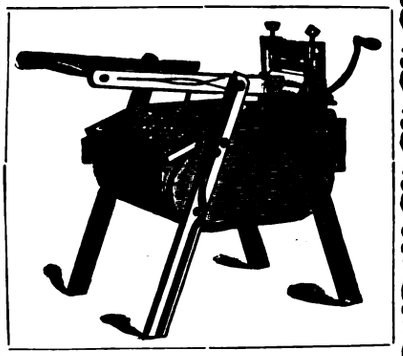
OPERATING
RICHARDSON BROS.
WHEELER MADDEN & CLEMSON MFG. CO.
HARVEY W. PEACE CO.
WOODROUGH & McPARLIN.

SAWS

Write for Lists and Prices.

THE NATIONAL SAW CO.
NEWARK, N. J.

THE "STROBEL" WASHING MACHINE.



The rub boards on inside work automatically, having a double back-action suction and pressure motion. It saves labor, fuel, time. wear and tear, washes perfectly clean and does not injure the clothes. All it requires is hot water, good soap and less than one-fourth the usual labor expended on any other washer or rub board. Prices and terms upon application.

THE STROBEL MFG. CO.,
Marion, Ohio.

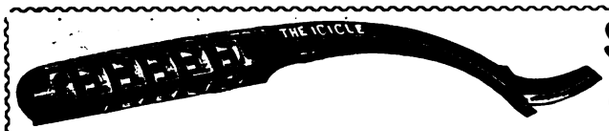
Do You Want Something Made?

My Specialty is to Manufacture for Other Parties.

Reasonable arrangements can be made. WRITE ME TO-DAY.

C. H. Angus, . Albany, N. Y.

Mfr. of Castings; Nickel and Brass Plating, Metal Pattern Maker, etc.

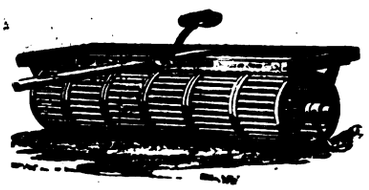


STOVE LID LIFTERS
30 KINDS.
COPPERED, TINNED, NICKEL PLATED.
. . . WE MAKE TONS OF THEM. . . .
LOGAN & STROBRIDGE IRON CO., New Brighton, Pa

J. K. WILLIAMS,
MACHINE SHOP.
210 CHERRY STREET,
AKRON, OHIO.

Special Machinery

Estimates made on all kinds of Special Machinery, Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates.



Cyclone Pulverizer.

The Greatest Seller known. Actually Sells on Sight. The only Pulverizer sent on approval and trial. See it and you will sell it. . . . See also our IRON KING and LEADER STEEL ROLLER. Best line of Rollers made.

The Fulton Machine Co., Sta. B, Canal Fulton, O.

Malin Spool Wire

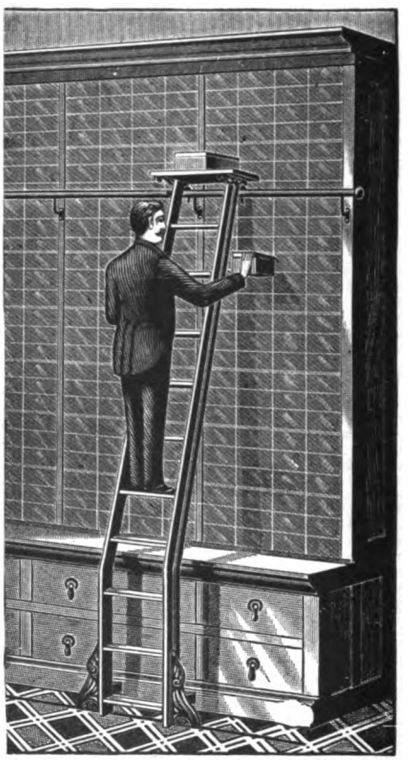
FOR RETAIL TRADE



THE MALIN & CO.
CLEVELAND, O.

The Bicycle Step Ladder

Especially adapted for Hardware Stores.



The newest, neatest, simplest, easiest operated, and safest store ladder made. Highest Award World's Fair. Write us.

The Bicycle Step Ladder Co.,
50 STATE STREET, CHICAGO, ILL.

AGENCIES:
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New York and vicinity, E. J. HUSSEY & CO., 80 John Street, New York City.
California, JOHN WOODLOCK, 26 Beale Street, San Francisco, Cal
Northwestern States, HOWE SCALE CO., Portland Oregon.
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A GOOD THING.

IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.

NEW YORK STAMPING CO.,

SOLE MANUFACTURERS,

North Eleventh and Berry Sts., BROOKLYN--GREATER NEW YORK





"The SUCCESS OF THE PHILADELPHIA SHOW" . . . WAS THE OSTERMAN BICYCLE BELL.

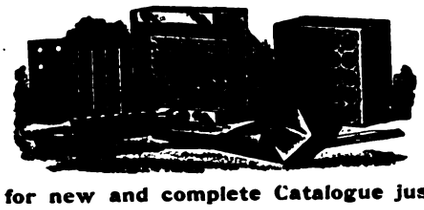
Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
Quickly adjusted to any wheel.
Strong, Simple.

AGENTS WANTED IN EVERY TOWN.
MADE ONLY BY

JOSEPH OSTERMAN & CO.,
4411 Main St., MANAYUNK, PA.

B. G. I. Hand Loading Outfits

Areguaranteedto give absolutely correct measurements. . .



In three sizes for 25, 50 or 100 Shells. . . .

Send for new and complete Catalogue just out.

The Bridgeport Gun Implement Co., *313-315 Broadway, New York City.*

QUADRUPLE Your Spring Sales



In these lines by stocking up with plain and decorated "STANDARD" WATER PAILS, DAIRY PAILS, CHAMBER PAILS, CUSPIDORES, &c., for Office, Lobby, Hotel, Hall and Home.

WASH BASINS. SLOP JAR MATS.

Made of strong fiber, wound, and steel bound, they do not split open, nor chip off at edges, neither do their truss bottoms warp, loosen or leak.

All "Standard" goods are waterproofed throughout, and then indurated by oxidation until absolutely unsoakable.

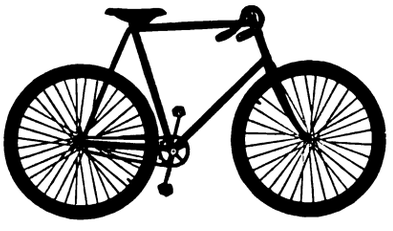
"Standard" is the only Fiber-Ware having hand-painted decorations, which, with its other merits, makes it outsell all similar ware.

Catalogue and price list, with full particulars, sent to dealers on application to the above company.

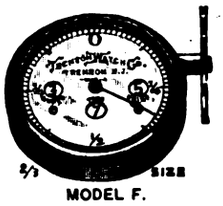
THE "SPARK" '97 MODEL

An up-to-date machine, List, $60. Our specialty "One Wheel," "Best Grade," at "One Price"

To all, $60. They are handsome, well built, finished in elegant taste and strictly up with the times. If you want a ready seller, better write us.



CANTON CYCLE MFG. CO.,
Canton, Ohio.



MODEL F.

RETAIL DEALERS

Should ask their jobbers for revised prices on Model F—1,000 mile "Midget" Cyclometers. Registers 1,000 miles and repeats. *Price $1.00.* You can make money on them, as they out-sell larger models.

TRENTON WATCH CO.,
Trenton, N. J., U. S. A.

THE FINISHED STEEL CO

YOUNGSTOWN, OHIO

MFRS OF **POLISHED SHAFTING**

5,000

Dealers in the United States & Canada sell Houchin's Specialties.

If you do not, send for illustrated Price List.

T. W. HOUCHIN,
67-69 Park Pl.,
New York, U. S. A.

HOUCHIN'S

POPULAR SPECIALTIES

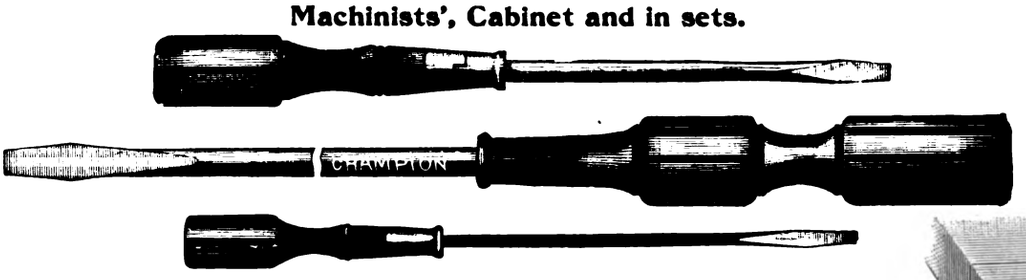
Consist of Wax Tapers and Torches for Lighting Gas, Alcohol Stoves, 20 Styles, Gas Heaters and curling Iron Heaters, & Insect Powder Guns and Bellows, &c.

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CARPENTERS AND MACHINISTS' TOOLS.

TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



See that the word "CHAMPION" is on each Screw Driver.

There are plenty of imitations to deceive.

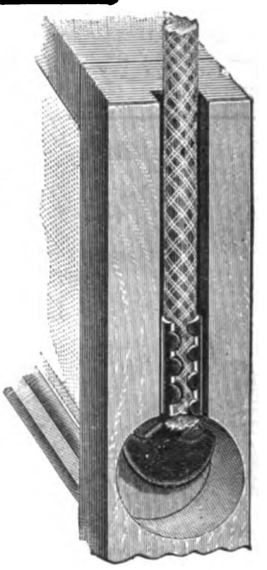
STEPHENS' PAT. VISES.





PHILLIPS'

Sash Cord,
Sash Weight,
Sash Chain
and
Sash Ribbon
Fasteners.



Shows Fastener in use.

TOWER & LYON,

95 CHAMBERS and 77 READE STS., NEW YORK.

MANUFACTURERS . . .

PADLOCKS, POLICE GOODS, ETC.

ICE SKATES.



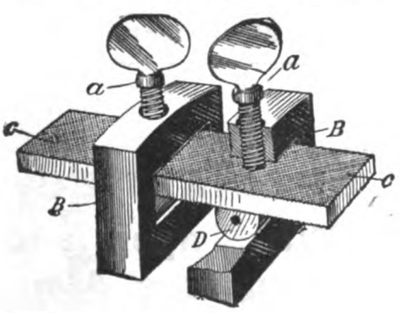
UNION HARDWARE CO.'S RACING SKATE,
CALLED THE
DONOGHUE RACING SKATE.

Made in three lengths, 14, 16, 18 inches.



The Union Skate Sharpener

A New and Useful Article
Which Speaks for Itself.



This device is simple, being composed of but three parts—two side pieces and a short file. It is easily adjusted at once. A child can operate it perfectly and do as good work as a machine shop.

It will adjust itself to any make or style of skate.

It always works and may be carried in the pocket.



This cut shows the natural method of using.

Sells on Sight. **Send for Price.**

——MANUFACTURED BY——

UNION HARDWARE CO.,

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

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MORRILL'S Perfect Saw Sets.

BENCH STOPS.

UNIVERSAL PUNCHES.

TRADE CM MARK

CAR SEALERS.

CUTTING NIPPERS.

This Trade Mark is stamped on all Saw Sets and other Hardware Specialties of my make.

CHARLES MORRILL, 35 Warren Street, New York.

E. C. ATKINS & CO., Indianapolis, Ind

BRANCH HOUSES: Memphis, Tenn. Chattanooga, Tenn. Minneapolis, Minn.

MANUFACTURERS.

The Atkins SILVER STEEL HAND, PANEL AND RIP SAWS.

WE MANUFACTURE EVERY KIND OF SAW USED.



ATKINS' PERFECTION, No. 53.

SILVER STEEL. FINE TEMPER. BEST WORKMANSHIP. THE BEST SAWS MADE



WRITE FOR PRICE LIST AND DISCOUNTS.

The Matchless Mop Wringer Co.,

Canton, Ohio.

A mop, wringer and pail at a price that will sell.

See current price list for the trade.

Discounts to Jobbers.

Send for Circular.



"DAILY FEEL THE BENEFIT."

Energy Mfg. Co., Philadelphia, Pa. [Dumbwaiters]: We daily feel the benefit of our card in your columns.

"New Idea" Halter Chains also SNAPS.

(Sheet Steel) For Harness, Rope or Chain.

☞ See that Steel Snap (Rear Bolt.) They are Safe! They are Sellers!



. . . SEND FOR PRICES ON . . .

Cow Ties, Picket Chains, Coil Chains, Dog Chains, Etc., Etc.

IRA F. WHITE & SON, 76-78 Park Place, New York.

FRANK W. GILBERT, Prest. O. C. EDWARDS, Treas.

Crescent Emery Mills Co.

MANUFACTURERS OF

EMERY & ABRASIVE MATERIALS.

EMERY WHEELS.
GRINDING MACHINERY.

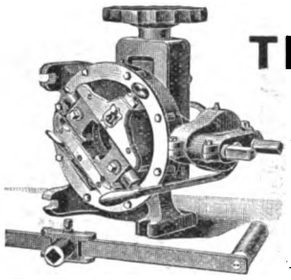
OSCAWANA, N. Y.

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Your Stock Is Not Complete

Without a line of

The ARMSTRONG



PIPE THREADING AND CUTTING OFF MACHINES, ADJUSTABLE STOCKS and DIES, WRENCHES, PIPE VISES, PIPE CUTTERS, CLAMP DOGS.

THEY ARE ALL "STANDARDS" AND NEV DISAPPOINT. CATALOGUE!

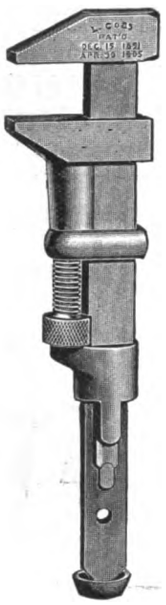


New No. 0. Threading Machine.

The Armstrong Mfg. Co., Bridgeport, Conn.

——NEW YORK OFFICE: 139 CENTRE STREET.——

L. COES'

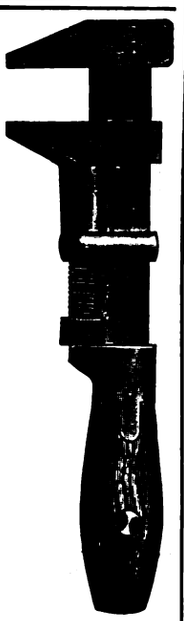


Genuine Improved

KNIFE HANDLE

PATENT

Screw Wrenches.



MANUFACTURED BY

COES WRENCH CO.,

WORCESTER, MASS.

Established in 1839. Registered April 9, 1895.

Patented Dec. 15, 1891. Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞ Straight Bar, Extra Long Nut for Screw in Jaw. ☜

The BEST MADE and STRONGEST WRENCH in the MARKET.

J. C. McCARTY & CO.
JOHN H. GRAHAM & CO. } New York Agents.

BALTIMORE AND OHIO.

IS THE ONLY LINE TO

EASTERN CITIES

VIA

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Colwell Lead Co.

63 Centre St.
NEW YORK CITY.

Manufacturers of

LEAD PIPE
SHEET LEAD

American Standard

DROP **SHOT** BUCK

Also Wholesale Jobbers in

Wrought Iron Pipe, Cast Iron Soil Pipe, Water Closets, Brass Plumbing Goods, and everything else to plumb a house from cellar to garret.

In Our Line of Elevators & Hoists



We have a Hand Elevator especially adapted for use in stores, warehouses, etc., and we are sole manufacturers of

The Philadelphia Dumbwaiter.

Send for catalogue. . .

Energy Manufacturing Co.,

411 Cherry Street, PHILADELPHIA, PA.

The Columbia Safety Self-Retaining

DUMB WAITERS,



ELEVATORS,

Cellar Lifts

... AND ...

SPEIDEL'S ECONOMIC SAFETY HOISTS.

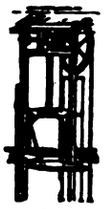
If you haven't tried the **Columbia Dumb Waiters** give them a trial. It will cost you nothing, as you can return them if not satisfactory.

SEND FOR CATALOGUE AND PRICES.

J. G. SPEIDEL, Patentee and mfr., **Reading, Pa.**

Improved Quick and Easy Rising Steam, Electric and Hand Power

ELEVATORS



Send for Circulars.

Kimball Bros. Council Bluffs, Ia.

No. 1013 Ninth Street.

Dumb Waiters.....

that don't keep you waiting.

Simple; smooth-running; noiseless. All sizes, capacities and styles. Hardware dealers can sell them.

THE STORM MFG. CO.,

Send for catalogue. NEWARK, N. J.

WILL CONTINUE TO USE HARDWARE.

Monarch Cycle Mfg. Co., Chicago, Ill. [*Bicycles*]: We used HARDWARE last year quite extensively, and as soon as we have our arrangements completed for next season's business, we will continue to use your publication to reach the Hardware trade. We have no hesitation in saying that HARDWARE is one of the best mediums of its class, and the services rendered us by your publication have been entirely satisfactory.

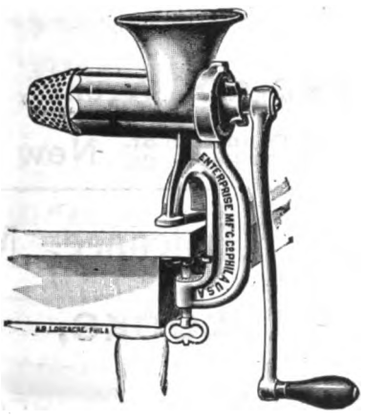
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ENTERPRISE
MEAT CHOPPERS

TINNED

OUR NEW MODEL



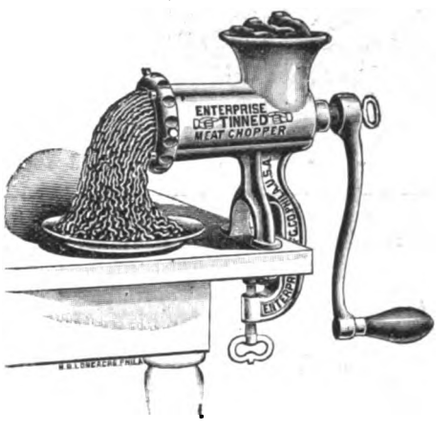
New Model

No. 2,	Clamps to table,	$1.75
No. 4,	" "	2.25
No. 6,	" "	2.75
No. 8,	" "	4.00

Standard Model

No. 5,	Clamps to table,	$2.00
No. 10,	" "	3.00
No. 20,	" "	5.00
No. 12,	Screws to table,	2.50
No. 22,	" "	4.00
No. 32,	" "	6.00

OUR STANDARD MODEL

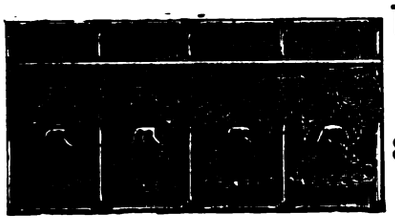


Consult your Jobber

Descriptive Catalogue Free

THE ENTERPRISE MFG. CO. OF PA., Philadelphia, Pa., U. S. A.

New York Branch, J. C. McCARTY & Co., 10 Warren Street



The Canton Steel Roofing Co., Canton, Ohio.

MANUFACTURERS.

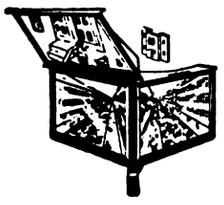
STAMPED CEILINGS,

AND ALL KINDS OF

Sheet Metal Goods for Buildings,

Iron Shutters and Doors, Roof Paints, etc.

Best construction, quality and workmanship guaranteed.



WINDOW MIRRORS

Enables a person to see up and down the street, eight to ten blocks, and who's on the door step. Can be attached to any house. . . .

THE BEST MADE, **"THE PERFECTION."**

We want live agents in every town in the United States and Canada. . . . Write us

BAYER & CO., *28 North 13th St., PHILADELPHIA, PA.*



RESERVOIR PUNCH

For Euchre and Whist Parties.

This Pocket catches the pieces punched from Tally Cards, thus preventing a littering of the carpet.
Is hinged, can be opened, emptied and closed in an instant.
Of great value to Railroads as it prevents the replacing of pieces punched out of monthly or commutation tickets.
Also valuable in Restaurants where punch tickets are used.

PATENT APPLIED FOR.

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50 Warren Street, N. Y., U. S. A.

SKYLIGHTS (METALLIC) HAYES LATHING &c

71-8TH AVE. NEW YORK.

FIRE-PROOF CONSTRUCTION

You take no risk on the quality. We make only the best!

TRADE MARK REGISTERED.

BAEDER, ADAMSON & Co.

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GLUE

SAND PAPER. EMERY PAPER.

EMERY CLOTH

CURLED HAIR.

FOUNDED 1828.

NEW YORK. CHICAGO.

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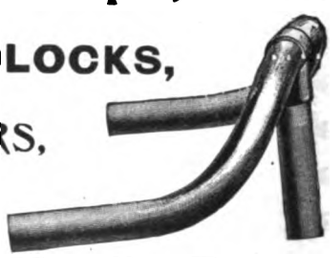
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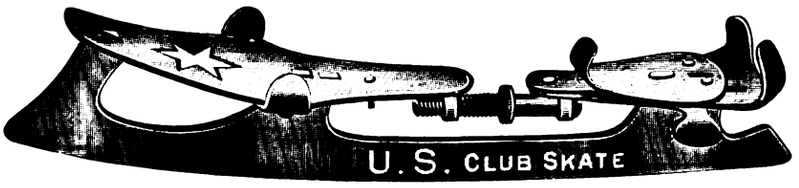
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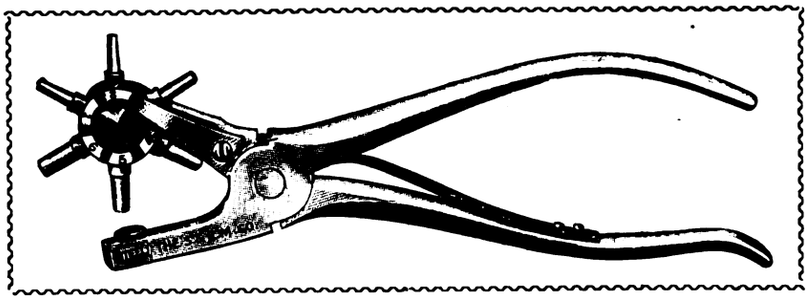
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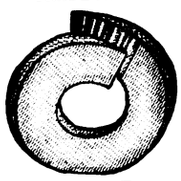
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Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel.* In 7 sizes, including *inside pans* and *grate bars* in all sizes. *Bakes finest bread.*
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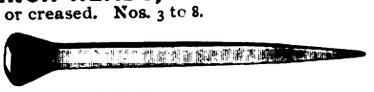


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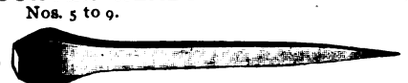
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In consequence of the action of the National Hardware Association, we now propose to sell direct to the general jobbers of the country. . . . . .
All restrictions have been removed as to quotations to be made by the trade from ocean to ocean. . . . .
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In case local dealer does not handle our goods, address

The Putnam Nail Co., ***Neponset, Boston, Mass.***

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HARDWARE

VOL. XVI. OCTOBER 10, 1897. NO. 1.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 143 CHAMBERS ST., NEW YORK.

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JAMES H. KENNEDY, - Editor and Manager.
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The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

A very hopeful and buoyant condition pervades the trade centers of the Hardware industry. Without the good fortune of having everybody striving to the utmost to keep abreast of incoming demands, there is still a sustained acknowledgment that on every hand the elements of a continued prosperity are apparent, and each succeeding month will surely strengthen convictions so desirable to our manufacturing interests. Many of our factories are still busy on orders not yet filled, and with a willingness to keep on producing a surplus that may be needed before the season closes.

There is no longer any disguising the fact that the good ship Prosperity is known to be on her way laden to the upper deck with good crops of cotton, wheat and corn at advancing prices; with Klondike gold, Alabama iron and other metalliferous wealth, having fair winds to waft her into the harbor, a contented crew receiving good wages, and having a crowded passenger list of willing buyers who are ready to do business with the expectant throng awaiting her arrival.

The trade relying upon the Southern section of the country for its fullest development finds the continued unfavorable reports from the section visited by yellow fever influencing trade conditions to some extent. It is a gratifying fact that the lateness of the season makes the future seem more hopeful, as with the advent of frost and colder weather generally, all vestige of this dread infliction will be stamped out, and the region referred to return at once to its normal business.

In reference to trade conditions in the Southern tobacco country, the present high prices on this important product based on a short crop, seem almost phenomenal.

The wire nail producers find every encouragement to keep the price on an upward tendency, advancing prices as they have been doing, being with only moderate activity and no speculative strides. With wire rods at their present firm advanced quotations, the price of wire nails is not abnormally high, and without a greatly increased production, may not remain long at present figures, as large stocks are the exception and not the rule throughout the country.

Some of the cut nail manufacturers of the United States contemplate the formation of an organization which, while having no connection with the wire nail combination, would in a measure co-operate with it by placing the price of cut nails at a certain specified discount from the price established periodically for wire nails. If this is to be the sole object of the association, it may possibly achieve success, and it would not prove detrimental to the best interests of the cut nail industry.

Among the many gratifying exhibits of our present prosperous conditions as compared with recent years, is the announcement by the Bureau of Statistics that our exports for the first eight months of this year were so greatly in excess of 1896 it was believed they would exceed those of that record-breaking year.

Then again, the Commissioner of Navigation shows that the total documented tonnage of the United States, on June 30, 1897, was the largest for twenty-one years, with the single exception of 1893.

Are We Extravagant?

The question whether genuine prosperity will ever cover the entire country again until frugality meets it half way and they come together hand in hand, is an important element of discussion as affecting the rising generation. It creates the exculpatory judgment with which we pass upon certain expensive habits that sap the foundation of general wealth and prevent the accumulation of that competence in later life which is the ambition of every intelligent artisan in other countries than our own.

Where the attending discomforts and fears of poverty with debt environments drive the despairing foreigner to suicide, only too frequently the same conditions spur an American to his supremest efforts, and by pure force of character he rises superior to every discouragement and becomes a millionaire.

An American, with a recklessness born of free thought and free institutions, will take all the apparently impossible chances and "make or break." He firmly believes his fortune is not to be one accumulated by long years of privation and enforced economy, which in so many countries is made necessary by fewer opportunities for self aggrandizement, and the necessity of bringing up large families until they become self-supporting. The representative American gets all the good out of his salary or wages that is possible of accomplishment, provides himself with the elements of comfort that were formerly enjoyed only by the wealthy, and avoiding the burdensome family so noticeable among those of foreign extraction, he becomes selfishly extravagant with a love for an occasional splurge.

These fripperies and extravagances surrounding a normal position in life become more and more difficult of attainment, as the profits in business are constantly receding in an inverse ratio to those obtainable in years gone by. It is evident that to get the happiness out of existence which is an inalienable right, our habits must change to those more moderate and self-

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denying, so as to adjust ourselves to the wages within reach of our mode of life. Some of the useless mimicry in material things which only the wealthy can consistently enjoy, will have to be discarded from our daily life, that with more simplicity in our domestic surroundings we may still know the contentment which was the prevailing sentiment of the early days of our forefathers, when a restless energy for employment was a prominent characteristic, and suicides and bankruptcy were not sufficiently numerous to establish a record.

We are in receipt of samples of very fine leather and cork grips, which Studley & Jarvis, Grand Rapids, Mich., are selling to the manufacturers. The new leather grip this firm is selling is different from anything else on the market, and is very handsome. The grip is made with a wood core, or reinforcement, is handsomely polished, and appears to be a very durable article. The cork grip is constructed somewhat different from anything else we have ever seen, and is very neat. During the past week this firm has closed contracts with the Lozier Mfg. Co., who will use this new leather grip on their entire line of wheels which will list at $50 and upwards; the Black Mfg. Co., Keating Wheel Co., Winton Bicycle Co., Snell Cycle Fittings Co., Kirk-Young Mfg. Co., and several others. Mr. Jarvis, of this firm, who has just returned from a week's visit among the trade, is very enthusiastic over the way the manufacturers have taken hold of their line, and predict a wonderful sale for the season of '98.

A report charged with infinite possibilities of labor troubles in the future, comes from Newcastle, Pa. The dispatch states that some days since, one Richard Kissinger—mark the name—an employe of a tin-plate factory, was discovered by the foreman kissing one of the girl employes. The foreman reported the kissing Kissinger to the manager, and although the kisser and the kissed both made denials, the offender was discharged. With that, 175 men and boys walked out of the establishment, and the silence of idleness reigned where the busy hum of labor had been heard before. While this may not be a warning against kissing in general, it certainly is against the pursuit of this pleasant occupation in the presence of somebody else.

The earliest English letters patent in our sense of the term, was issued in 1643 to Arnold Rotsipen, for an improvement in printing machinery. The earliest American patent was granted in 1641 by the General Court of Massachusetts to Samuel Winslow for a process of making salt, and in 1653 a royalty of ten shillings was granted to John Clark to be collected from every family which should use a method devised by him for "saving wood and warming houses at little cost."

Don't be afraid to shake the hand of an honest mechanic even if he is fresh from his lathe or drill bench. You couldn't have a better advertising agent in a full grown factory than the man who knows you're "no bloody dude," after having had such a hand-shaking episode without comment.

When a sense of gratitude urges you to return thanks for some favor extended, without being unnecessarily effusive—which might cause your sincerity to be suspected—don't be afraid nor ashamed to avoid mumbling your speech; state the few words of thanktulness in a way that carries conviction.

More business involving a money outlay can usually be accomplished in five minutes of sunshine, than in five hours under clouds and rainy influences.

Exports and Imports.

The Bureau of Statistics has issued tables showing the exports and imports for August, the first full month under the new tariff law. These figures show for that month the largest exports of domestic merchandise of any August in the history of the Government. The exports were $79,490,264, against $66,689,981 for August, 1896. For the first eight months of the year the exports were $61,810,000 in excess of the first eight months of 1896, so that the bureau officials believe that the exports this year will far exceed those of last year, which was itself a record-breaking year in the matter of exports.

The value of imports, dutiable and free, for August was $39,848,312, of which $18,629,609 were free. These figures show a decrease of about $10,000,000 from the imports of August, 1896. The decrease was due to a heavy reduction in the importation of raw wool, which decreased from 4,651,000 pounds in August last year to 2,877,877 pounds last August. Manufactured wool decreased from $3,709,000 to $638,000; wood and manufactures thereof, from $1,963,000 to $1,271,000 manufactures of cotton, from $2,553,000 to $1,623,000; manufactures of jute, flax, and hemp, from $2,221,000 to $999,289; iron and steel from $1,766,067 to $887,344, and sugars, from $5,340,000 to $2,950,000.

The following table shows the balance of trade with the several continents:

	Exports To.	Imp'ts From.
Europe	$60,505,000	$20,175,000
North America	11,500,000	4,071,000
South America	2,635,000	6,712,000
Asia	3,042,000	4,011,000
Oceania	1,820,000	2,854,000
Africa	1,291,000	260,000

Don't try to get the good will of a purveyor of orders by offering a money consideration; notwithstanding all statements to the contrary, it is not an American characteristic to accept open bribery without involving a loss of the self respect so dear to the race. You can accomplish equally as good results by presenting a sample of a new knife or a pair of new razors, etc., etc.

The monthly meeting of the New England Hardware Dealers' Association will be held at the United States Hotel, Boston, Mass., on the evening of Wednesday, Oct. 13th. J. R. Prescott, secretary of the Anthony & Cowell Co., Providence, R. I., will deliver an address on the subject: "What Constitutes a Good Salesman?"

White & Conant, Worcester, Mass., offer their Hardware stock and fixtures for sale. Any party who wants a good thing for cash can obtain particulars by seeing or addressing them.

Hardware Terms Illustrated.



AN OLD RAKE."
[A few teeth gone.]

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AMERICAN GOODS IN NORTHERN EUROPE.

Editor Hardware: It being some time since we last wrote you, we thought that possibly a few lines from here might be of interest to some of your readers, especially those engaged in the manufacturing of bicycles. etc.

The bicycle season, which is now soon nearing its end, has been an exceedingly lively one, and a great number of wheels have been sold here this year, although it must be remembered that Norway and Sweden together only have a population of about six millions, so it cannot be expected that these countries should take as many machines as the more thickly populated countries. Still it is more and more getting so everybody, both young and old, wants to be the possessor of a cycle. The ladies, too, are commencing to take great interest in this both pleasant and useful sport.

Although the sales have been larger this season than in any previous year, we do not think it has been as profitable to all of the dealers as it might have been, partly on account of the very keen and often unsound competition, and partly on account of the report which came out, according to our opinion, rather early in the season, that prices on American cycles would be much lower next year, which now proves to be true.

As to competition. This is something that, of course, never can be avoided, but where the trouble comes in is that a good many dealers will buy cheap and trashy cycles and sell them for a better wheel than they really are. Such dealers are always on the hunt for a cycle, no matter of what make, and whether it has any reputation or not, only that they can buy at a very low price, so they can make a good round profit on it. Through false statements they represent these wheels to be first class and strong in every respect, and as people here, as a rule, are not yet very well posted on the qualifications a cycle ought to possess, they will buy such a wheel if they only get it a few kroners cheaper than what they would have to pay for a really first class wheel, which in most cases is worth many times the price of the wheel they are getting. When, after a short while, anything happens—the rims break, or the cones and other parts wear out in an unreasonably short time—this is at once blamed to the American wheels in general.

WOODEN VS. STEEL RIMS.

This also, is the principal reason why people here have had so much against the wooden rims, with which now nearly all American cycles are fitted, and other handlers of first class cycles, and we also, have had a great deal of work educating people to the fact that a good wooden rim is to be preferred to a steel one; but in this, we believe we are now succeeding. To illustrate the above, we will mention that a dealer who has this year sold in the neighborhood of one hundred cheap cycles, has had to replace not less than forty rims, while we ourselves, on between six hundred and seven hundred wheels of different makes, only have had three broken rims.

AS TO LOWER PRICES.

We mention the above, that the report about the lower prices on certain wheels for next year has tended to somewhat stagnate the business, which is, so far as the latter part of the season is concerned, when it has been definitely learned by everybody through the press, that such a reduction in the prices is really coming on. The consequence has been that a good many people intending to buy a cycle have said that if they did not get a cycle for such and such a price, they would wait with buying until next year. Rather than let them go, the dealer would sell them the cycle at the price they had offered, not knowing but what if it eventually was kept over until next year, he might not get any more for it.

As wholesalers, the report about the price reduction has not done us much harm, but we learn from our customers in the retail trade, and among whom we financially back three different concerns on condition, the retailers are not very well satisfied with this report coming out in the middle of the season, and we, for our part, cannot say that we think very much of it, as regarding the interests of the agents who, as the factories must have known, sat with a large stock on hand at the time. However, we must suppose that the factories had some reason for acting the way they have done.

AMERICAN AND EUROPEAN MAKES.

While some years ago the English and German makes of cycles were the dominating ones on this market, this has now changed, so we consider that of the cycles which have been sold here this season, nearly three quarters have been of American manufacture. For this one can only thank factories like the Pope, Monarch, Wm. Read & Sons, Eagle, Iver Johnson, etc., who are sending out first class goods, which have given the American cycles a reputation.

We now have the pleasure of a visit from Mr. Frank S. Beavis, the Eclipse Bicycle Co.'s representative, who is showing samples of, and trying to get an opening for their cycles in Europe. Their machines, with the "Farrow's automatic coasters," no doubt have a future before them, as they are built correctly and of good materials.

As a standing rule for factories who seek a market for their wheels in the Scandinavian countries, will say that they must be prepared to furnish steel rims on demand, as in many instances it is still impossible to get eventual buyers to make up their minds to take the wooden rims. This is especially the case with people from the country. Hand brakes are, according to the police regulations, necessary on all cycles to be ridden in the cities. Further, the cycles must be furnished with lantern-holders and wood or steel mud guards. As to tires, the demand is for a double tube rifled tire. We are finding the Dunlop and Gormully & Jeffery to give the best satisfaction. The Morgan & Wright people will come out with a rifled tire next season, we understand, otherwise their tires are all right. The Garford saddles are much in demand.

The duty on cycles has recently been increased from 20 kroners to 30 kroners (3¾ kroners equal $1.00).

A HINT TO MANUFACTURERS.

We believe we are taking the word for every dealer in cycles and cycle supplies in the non-English speaking countries when we say that it would be very desirable if the cycle factories in printing their price lists of parts would illustrate these with a good-sized cut of a bicycle, around which was printed the English names of every part of the machine. As the lists now appear they are very difficult to find out for the dealers, who do not generally possess much knowledge of the English language. The fact is that this industry is so comparatively new that other languages do not have words for all the parts, and by following our advice we think a good step would be made towards making such names as are now used in America and England a kind of universal in time, which would save a large amount of trouble and mistakes. In a recent number of the *American Referee* there appeared a

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cut, such as we mean, with explanations printed all around.

Of other American iron and Hardware which are rapidly getting a large sale, we will mention: radiators for hot water and steam heating, of which there is lately sold a great deal, as a good many large office buildings are constantly under erection. The factories that have the largest trade in this line are the American Radiator Co., of the United States, and the Toronto Radiator Mfg. Co., of Canada. Besides these there are sold some German radiators, which certainly come cheaper than any of the above, but which on the other hand are not considered as good. Radiators have, up to the first part of August, been admitted free of duty, but since then they are subject to a duty of 5 milreis (1½ cents) per kilogramme.

American gas and kerosine stoves and ranges are being offered here lately, and we have seen some very attractive samples of these. Unless the price can be reduced to somewhere near the cost of German goods in this line, we are afraid there will not be much done. Otherwise there is a market here for such goods.

Rubber clothes wringers, meat grinders and choppers, berry presses, fruit peelers, etc., have been sold here, quite a good deal of which have come from the United States.

A line that commands a large sale is enameled ware, such as kitchen utensils of all kinds, etc. Most of this comes from England and Germany, but we should think the Americans ought to be able to compete in this line.

American agricultural tools—spades, hatchets, axes and forks—as well as carpenters' and mechanics' tools, files, etc., have for years been regarded as excellent and practical goods, of which large shipments are constantly arriving. Barbed and other kinds of wire for fencing purposes, wire netting for poultry yards, etc., are in constant demand, the farmers having found that wooden fences, which have in earlier days been the only kind of fencing material, come high in proportion the time they last.

As a whole, American manufactured goods of all kinds are gradually gaining more and more ground here, and to better enable our customers to see what we can offer them in American goods, we intend getting out an illustrated catalogue for 1898, which will be distributed to the dealers in Norway, Sweden, Denmark and Finland. Should any of your readers wish their manufacturers or goods mentioned in this catalogue, they only need to write us, sending us at the same time their catalogues accompanied with necessary cuts or descriptions and, if possible, with samples, quoting highest export discount f. o. b. steamer, New York, or better, c. i. f. Christiania.

Yours respectfully,

Christiania, Norway, Sept. 21, 1897. C. E. SONTUM & CO.

Riveting With Compressed Air.

In regard to riveting with compressed air, the master mechanic of the Santa Fe road is quoted as saying that by the use in the Santa Fe shops of a stationary riveting machine three men are enabled to drive 2000 rivets per day of ten hours at a cost of $4 75, as compared with 200 rivets per day at a cost of $7 by hand labor. Truck riveters—the machine being operated by two laborers at a total cost of $3 per day—drive 3000 rivets, as compared with 175 rivets driven by hand labor by three men in a day at a cost of $6, while the stay bolt breaker makes an average saving of $8 a day and the tank riveter an average daily saving of $10. Further, the mud-ring riveters will drive as many rivets as can be handed to them and will make a saving of $12 to $15 a day for this class of work. Not only is this method credited with the great saving named, but is declared to insure every rivet hole being filled entirely and to insure tight work, while of hand driven rivets in mud-rings a large percentage invariably leak.

Ruling in England in Favor of Bissell Carpet Sweeper Co.

On July 30th Mr. Justice Stirling, sitting in the chancery division of the English courts, had before him an application made on behalf of the Bissell Carpet Sweeper Co. for an injunction to restrain Messrs. G. Greiner & Co. from selling or causing to be sold any carpet sweepers "not of plaintiff's" manufacture, under the term "Grand Rapids," or in any way so as to induce the belief that such carpet sweepers are of the plaintiffs' manufacture. The plaintiffs, as is well known, have for many years sold a carpet sweeper under the name "Grand Rapids." It was stated that an undertaking would be given in writing that defendants would not sell, or offer for sale, any carpet sweeper not of the plaintiffs' manufacture under the name of "Grand Rapids Moquette" or any other name or description of which the words "Grand Rapids" form part, without clearly distinguishing they are not the plaintiffs' goods. After a consultation between counsel and the learned judge, his lordship made the undertaking as follows: "Not to sell or offer for sale machines under the name of 'Grand Rapids' or 'Grand Rapids Moquette' as hitherto, and not to sell or offer for sale any carpet sweepers, under any name or description of which the words 'Grand Rapids' form part, without qualifying words." The interest of this case is found in the fact that a manufacturer can acquire a goodwill in a title, which he could not register as a trade mark.

The Sportsmen's Exposition.

At a meeting of the board of directors held at the offices of the Sportsmen's Association, Nos. 377-379 Broadway, New York, the following resolution was offered and unanimously adopted:

That the fourth annual Sportsmen's Exposition be held at the Madison Square Garden, New York City, from January 13 to January 22, 1898, both days inclusive, the Exposition to be known as the Sportsmen's Exposition and Bicycle Show, thereby making a special feature of bicycles, bicycle sundries, machinery, etc.

The president of the Association says: The National Board of Trade of Cycle Manufacturers have officially announced that they will not hold or sanction any show before June 1, 1898. We having received a number of applications from manufacturers of bicycles and bicycle sundries for space, which shows a desire on the part of the trade to exhibit in New York, our board feels justified in adding bicycles and bicycle sundries to their Fourth Annual Exhibition.

The great success that has attended the former Sportsmen's Expositions, with the additional attraction of a bicycle show, will undoubtedly make the 1898 Exposition the most attractive ever held in the Madison Square Garden.

Spaces will be allotted as applications are received. We call particular attention to the fact that the Exposition will be open from January 13th to January 22d, making nine exhibition days. THE SPORTSMEN'S ASSOCIATION.

Chas. Tatham, president.

Ours is a marvel. We wrote: "Is there no balm in Gilead?" Supposing we didn't mean it, or were mistaken in the town, our compositor slung it up "Golaid." But that's a small matter. Some years ago, in compiling a mortuary report from exchanges, we wrote: "Dr. Jno. B. Bailyhache, *aet.* 74 years, born July 20, 1822, and died—." Imagine our consternation on finding the proof sheets to read: "Dr. Jno. Bellyache eat 74 ears corn July 20, 1822, and died—."—*Texas Medical Journal.*

A copper pan said to be the largest ever made from one piece of metal, has been turned out at Swansea, England. It is twelve feet four inches in diameter, three feet three inches deep and weighs two tons.

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AMERICA AND AUSTRALIAN TRADE.

We have received from Thomas Cooper, a well-known representative of American manufacturers, located at No. 418 George Street, Sydney, New South Wales, a communication of considerable interest concerning the extension of American trade in that section of the world. Mr. Cooper has had an extensive experience in the way of introducing American goods in New South Wales, and in a private note, he informs us that this experience has taught him that: "The only way for a manufacturer to sell his goods in a foreign market, is in precisely the same way as he sells to his United States trade. I am representing various manufacturers here, who make no distinction between Australia and the United States in their business systems, and it is needless to say that they get results which have never been possible to manufacturers who, for export trade, have followed business systems which it would be impossible to do business under in their home market."

Mr. Cooper sends us also an entertaining article giving an outline of an interview had with Col. Bell, the United States Consul, by a representative of a local newspaper: "Colonel Bell said it had been his effort from the first to impress upon his countrymen the fact that Australia's market was a growing one; that Australians are the most commercial people in the world, and that American firms operating through proper agencies, furnishing goods kept up to a proper standard and packed and delivered in good faith, might rest assured of a profitable business for the future.

"Referring to the growth of trade between the two countries, Colonel Bell mentioned that in 1894 this colony's trade with America totalled £916,968; in 1895, £1,307,874, and in 1896, £3,794,835. The figures, he explained, though correct, are somewhat misleading as evidence of the growth of American trade with New South Wales, owing to the abnormal shipments of coin from Sydney to the American ports during last year. Deducting the total gold and coin shipments, however, there still remains an increase of over 130 per cent. for the three years, 1894-6, as against an increase of 20 per cent. for France and 16 per cent. for Germany, and in face of the enormous subsidies paid by France and Germany to steamship lines, with the object of increasing the trade with Australia. If, further, the entire imports of wheat and flour from the United States to this colony, which during the period were also abnormal, are deducted, a net increase of over 54 per cent. is shown in the regular staple lines.

"The consul enumerated 30 classes of articles imported into New South Wales, with the portions supplied from the United States. These included the following: Agricultural implements, total importations, £70,975: from the United States, £13,277; arms, ammunition and explosives, £138,783, £16,576; bicycles, £205,499, £50,758; boots and shoes, £381,233, £41,539; carriages and carriage material, £50,391, £23,886; drugs and chemicals, £206,862, £11,820; fish, preserved, etc., £103,623, £35,687; fruits, various, £367,272, £11,084; furniture and upholstery, £84,920, £6842; grains and products, £1,157,144, £717,200; Hardware and ironmongery, £231,537, £33,173; hops, £40,701, £9429; leather, £81,502, £24,308; machinery, £489,675, £57,328; oils, £202,067, £81,946; paper, books, etc., £372,111, £48,571; preserves, £13,637, £8061; soap, toilet, etc., £65,568, £11,742; stationery, £125,497, £7575; timber (lumber), £344,955, £117,772; tobacco and products, £231,937, £110,774; tools, £97,339, £39,353; typewriting machines, £17,046, £12,053; watches and clocks, £41,981, £10,288. The total amount of the colony's importations was £6,256,809, and the value of the United States quota, £1,522,495.

"Among the articles for which Colonel Bell anticipates a largely increasing business are agricultural implements, bicycles, drugs, boots and shoes, Hardware, paper goods, machinery, dressed lumber, high class confectionery, furniture, iron and steel. The proposal which has been made in certain quarters that American manufacturers should establish showrooms and keep on hand a moderate stock so that buyers could select and be accommodated without delay, does not meet with Colonel Bell's approval. 'To abolish the indent agent abroad would be like abolishing the drummer in America,' he says. At the same time, he has sought to enforce on American manufacturers the necessity for entrusting their goods only to men of experience, industry and integrity, who should suitably advise them as to the changing demands of the Australian market. In all such matters, however, it is an axiom with the Colonel that the buyer is the final judge of all articles placed on the market. 'The American wants the new thing, the Britisher the tried thing.' American boots are growing in favor in Sydney largely, Colonel Bell thinks, because for a few years the people have seen them exhibited in their shop windows.

"Having watched the growing trade during the past three years with pardonable pride, the Colonel feels safe in predicting a splendid future for American goods in Australia, if skill is used in studying the people's tastes, and energy and integrity are observed in supplying their requirements. 'If I have not assisted in this improved trade,' he modestly exclaimed, 'I have witnessed it with enthusiastic satisfaction, and am well pleased with the results.' At the same time, he pointed out, America wishes to buy as well as sell, so that, after all, the trade between the two countries is simply a matter of exchange, and while in the direct trade America sells more to this colony than she buys, in the indirect trade it is the other way about, because she buys largely of New South Wales products through England. 'Contrary to general notion, the balance of trade is, as a fact, in favor of New South Wales.'"

Commenting on this statement by Consul Bell, Mr. Cooper continues as follows:

Editor Hardware: Should you publish this clipping, I think it might be well for you to call attention to Colonel Bell's remark, in which he confuses the "indent" agent and the drummer as being one and the same thing.

An indent merchant in this country means a man who sells his goods first and imports them afterwards, whilst an ordinary merchant first imports his goods and then sells them. They are merely two types of middlemen.

By an indent agent I think the Colonel must have in mind commission buyers or exporters, as you call them. They are essentially part of the middleman business, as apart from manufacturers and consumers.

By a "drummer" I think we understand a man allied to the interests of a particular manufacturer.

No American manufacturers have got any men of that type in Australia. The entire business is controlled by the distributing interests of one type or another. I believe I am the only Hardwareman here who can be classified as belonging to the manufacturing interests. I am asserting for manufacturers in this country the right to be in touch with the consumer and to make satisfactory arrangements for the sale of their goods. That policy is strongly resent-

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ed by a very strong section of the distributing interests, who claim to control everything, and deny the manufacturer any rights at all.

Until manufacturers can discern the difference between a salesman and a buying agent they cannot get best results possible. Yours truly,

Sydney, New South Wales, Aug. 30, 1897 THOMAS COOPER.

Will Make Stoves.

There is an encouraging prospect that with a continuance of the prosperous conditions of trade now prevailing, the stove industry in this city will again thrive and hundreds of men be given employment. Mr. Gaitley of the Troy Nickel Works Co., which has the plant of the old Perry Stove Works Co. on Van Rensselaer Island, said recently that a company will be incorporated next year with a capital stock of $50,000 for the purpose of manufacturing castings and stoves. This will be good news to those patriots who want to see Albany regain her old-time prestige as the center of stove manufactories. With the downfall of this industry, Albany lost one-third of her commercial importance. The resumption of work in the Perry foundry undoubtedly will have a rejuvenating effect on other stove works long since closed.

Mr. Gaitley attributes the cause of this revival to the general good times now prevailing. He said:

"We expect to start in with thirty-five or forty men and will make castings and a few stoves. We easily can make stoves as we have all the patterns here. We shall increase the force after awhile to fifty or sixty men and, if business is good, we will extend our work.

"We now have employed 110 men in the nickel works. We are awaiting now before opening the foundry for a shipment of iron."

The new company will be incorporated the first of the year.—*Albany (N. Y.) Evening Journal.*

He Talks About Stanley Goods.

The "Man at the Corner Desk" in the store of the W. Bingham Co., Cleveland, Ohio, knows a good thing when he sees it. In his screed for October, he says: "Among others, look over your line of butts and hinges. The W. Bingham Co. is selling the Stanley Works' corrugated strap and tee hinges, corrugated brass butts and wrought steel butts, all of superior quality. The corrugations of the strap and tee hinges not only stiffen the joints and make it impossible for them to bind on the pin, but the extra heavy goods that are stronger than the old style are lighter in weight, with a corresponding saving in cost and freight. The wrought steel butts are finely finished in all the effects of bronze metal; are very strong and practically everlasting. It is a good line to show to customers who want the best quality at a reasonable figure. In fact, there is not a poor article made by the Stanley Works. They began business in a small way a good many years ago, but their goods were always right aud everything they added to the line was of a character and made in a way that added to the makers' reputation, and they prospered accordingly, so that to-day, there is no concern in the Hardware manufacturing business that stands higher in the estimation of the trade than the Stanley Works."

True Enough.

The Hardware Club on the top floor of the Postal Telegraph building, has a women's dining room which is separated from the main dining room by portieres only. The service is the same as for the men. A neat reception room has been fitted up for the use of women, but while they are made to feel welcome there is no inducement for them to remain after luncheon.—*New York Commercial Advertiser.*

On "Selling for Spot Cash."

Editor Hardware: You get up a very readable paper, with a great many new and good ideas. That is what is wanted—all that's new, and up to date. We all know about the old, that is past and gone; don't care for that—we want the new, and what is going on now over the country in the Hardware line.

Let us say here that we think the article in the latest number, "Selling for Spot Cash," by Silas Jones, a fine one, well written, and in our opinion correct. It has always appeared to us that selling Hardware for cash in any but the large cities is impractical and unprofitable—that it cannot be done. No firm with plenty of capital could afford to try it. We never saw an article on the subject as good as that, or so near our mind. We have had some thirty years' experience and observation to go by. Yours truly,

Keene, N. H., Sept. 27, 1897. SPENCER HARDWARE CO.

Bissell Carpet Sweeper Co.'s Exhibit.

The Bissell Carpet Sweeper Co. have taken medals continuously for the last fifteen years at the fair of the American Institute and are again exhibiting their attractive line of sweepers at the present exposition which is being held at the Madison Square Garden. Their exhibit consists of a very elegant line of their latest improved cyco bearing carpet sweepers. The appearance of their exhibit is very greatly intensified by the exhibit of an electric wheel, a fac-simile of the celebrated Ferris Wheel, shown at the Chicago exposition. This wheel is operated by an electric motor and flashes out some 350 one-candle power lamps, with nineteen different combinations, and the effect is most striking. The lettering on the wheel in these different combinations advertises Bissell's cyco bearing carpet sweepers. The Bissell Co. have two attendants in charge of their exhibit, which is one of the leading attractions of the Garden.

A dispatch from Reading, Pa., is to the effect that the improvement in the iron industry in that section is very marked. It is stated that the iron furnacemen of Eastern Pennsylvadia are greatly encouraged by the present state of affairs and the future probabilities, and that many of them have entirely sold their entire product for 1897. It continues: "This increased demand for pig iron does not come from any particular manufacturing industry, but seems to be general. The pipe and rail mills are very busy. The demand for pig from manufacturers of locomotives, railway appliances, structural iron and plates, nails, and small Hardware, is very good. Wrought iron pipes have just been advanced 5 per cent., and the large mills in this section are full of orders and making big shipments daily."

The annual banquet of the New Haven Hardware Dealers' Association was held in the Tontine parlors, New Haven, Conn., on the evening of September 24th. Covers were laid for fourteen, and those present were: J. R. Lyon, E. L. Nettleton, Edward Hunn, K. A Warner, W. A. Warner, W. H. Burchell, R. C. Lightbourne, M. Meyers, L. L. Rosenberg, F. L. Leighton, E. J. Selk, George J. Bassett, L. H. Jackson and W. W. Buckingham. After the banquet matters pertaining to the trade were discussed.

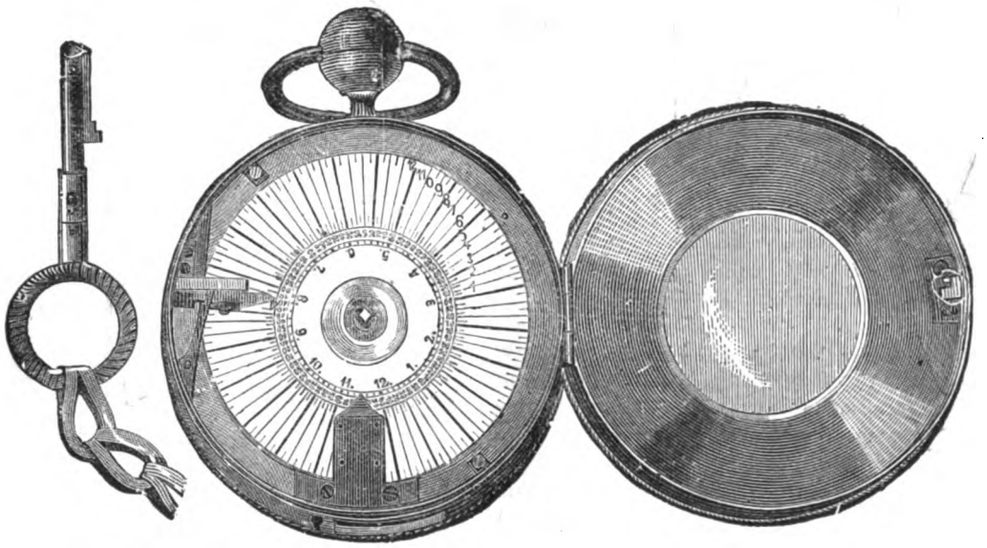
The C. R. Meres Heater Mfg. Co., Norwalk, Ohio, have just shipped heaters to J. W. Britton, Painesville, Ohio; E. T. Forbes, and Charles Strever & Son, Cleveland, Ohio; O. H. Tilden, Vermillion, Ohio; W. B. Otis, Jackson, Mich., and F. B. Colson, Norwalk, Ohio. Their improved heater combines heat and hot water supply for domestic purposes.

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NEW GOODS AND SPECIALTIES.

Hahn's Improved Watchman's Time Detector.

Nanz & Co. Incorporated, No. 116 Chambers Street, New York, are the sole agents for the United States and Canada for the sale of Hahn's latest improved Watchman's Time Detector, with safety lock attachment, and which has met with a large and extended sale in this country since the original patent was granted in 1891, they having been accepted and endorsed by the different boards of underwriters of the United States. The case of the clock is of brass, heavily nickel plated. The clock consists of a movement, revolving a dial, which is supplied with an independent spring, so that it cannot be turned back; is divided into hours and minutes, and when operated with the keys it records the fact upon the dial, and also the time at which the watchman made his rounds. One of the great advantages of this clock is, that the registering is done by numbers ranging from 1 to 6, 1 to 12 and 1 to 18, instead of marking only either by holes or by an impression on the dial, which is the same for all stations. The movement is separate from the recording mechanism, full jewelled, lever movement, and will run about sixty hours. The clock has to be provided daily with a new dial, on which the date of the night should be written, after which it should be wound up and locked before given to the watchman. The recording is done by inserting the keys into the clock and turning them to the right once, which perforates the dial with the number of the station. On the delivery of the clock in the morning, it can be seen at once how often and at what time, the rounds have been made during the night, how long the watchman stayed at the station, and whether all the stations—even the most isolated ones—have been visited on each round; in short, the marked dial tells the exact history of the night's doings. Manufacturers contemplating improvements for 1898, should send for catalogue containing prices and full particulars.



McCabe Ball Bearing Tubular Door Hanger.

Among the many noted improvements in the hanging of parlor, barn or other heavy doors with which the trade has become familiar of late years, the McCabe Patent Ball Bearing and Tubular Door Hanger now being introduced by the McCabe Mfg. Co., Nos. 532 to 542 West 22d Street, New York, presents features of great interest to the architect and Hardware dealer which make it well worthy of the closest inspection as to points of merit. It is made in varying forms and styles under this patent, for use upon parlor, fire, barn, elevator, car and mill doors; and we present herewith, see Fig. 1, an illustration of the Parlor Door Hanger No. 2, showing its method of construction and suggesting its adaptability. It is strong, simple and durable, and consists of a tube of drawn steel with a parallel slot with flanges on both sides in which runs the carriage; this is composed of two hemispherical cones, see Fig. 2, a hanging strap and sixteen universal balls; the balls turn on the cones and in a ball race in the hanging strap, thereby reducing friction to a minimum. The track is stiff and rigid, being round with an opening at the bottom, and it is absolutely impossible for it to clog, there being no place wherein snow, ice, dust, or other matter could lodge and thus impede the free action of the doors. The manufacturers claim this parlor door hang r to be absolutely noiseless, and extremely simple of adjustment on the door as well as on the track. This adjustment is made by means of a check-washer and the end of the carriage being thread-

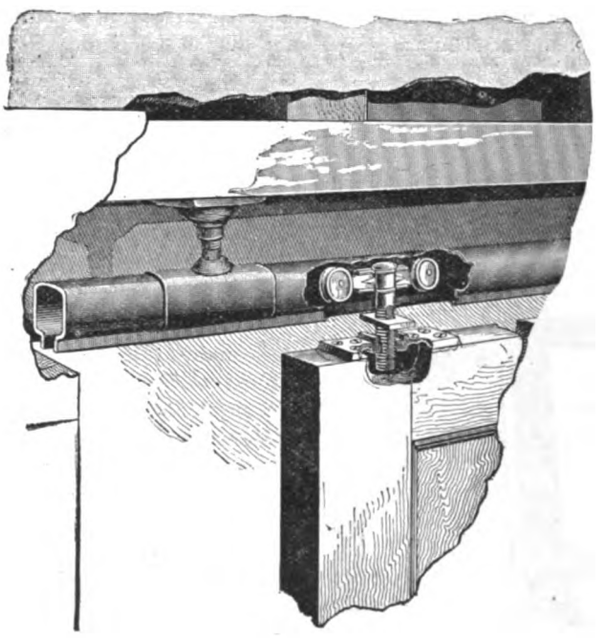


FIG. 1.

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ed. By lifting the check-washer out of the slot and turning the pendant round, you can screw it down into the plate or out as desired; this will raise the door up to the jamb head or lower it, so that the track can be raised or lowered to make it level and still keep the door up to the jamb head as desired. The track is attached to the spreader in only

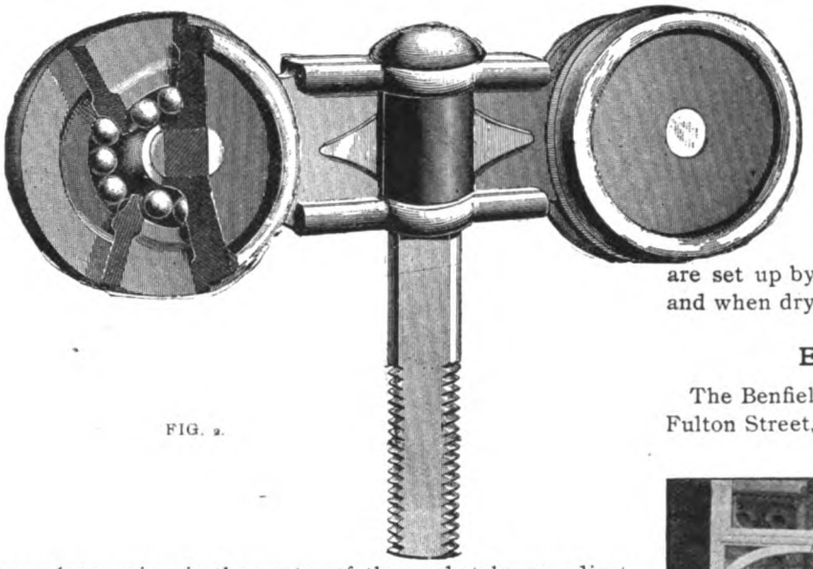
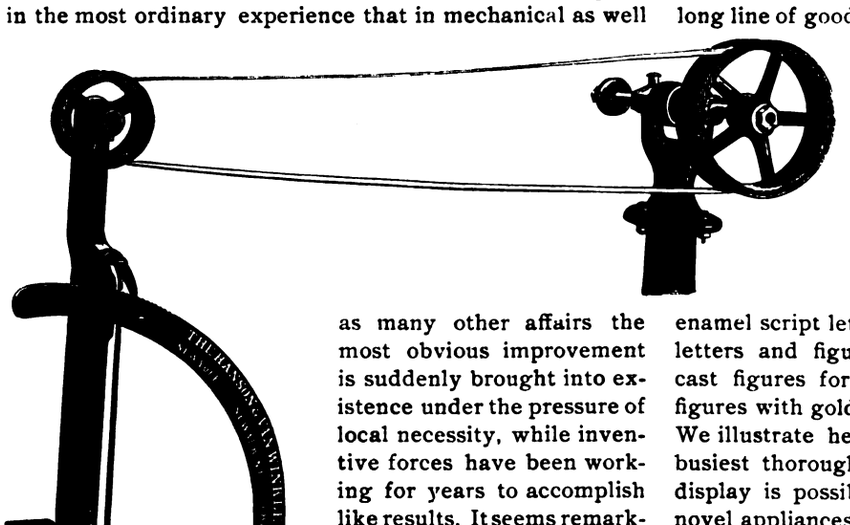


FIG. 2.

two places, viz.: in the centre of the pocket by an adjustable bracket and centre of the opening. By this means the track may be raised or lowered, or the track may be removed from the pocket by loosening the screw above the opening, without removing the door or any of the trimming, and can be adjusted with a screwdriver. By this means the pocket end of the track may be raised or lowered as desired when hanging the door. The door may be plumbed by the adjusting screw in the bracket over the opening. The extended uses to which this mode of ball bearing hanger can be applied make this catalogue a desirable one for the dealer. It will be forwarded with trade discount upon request.

New Belt St apping Attachment.

Hanson & Van Winkle Co., Newark, N. J., have just placed upon the market a new belt strapping attachment which we illustrate herewith. It is a matter of surprise in the most ordinary experience that in mechanical as well as many other affairs the most obvious improvement is suddenly brought into existence under the pressure of local necessity, while inventive forces have been working for years to accomplish like results. It seems remarkable that some like improvement to this attachment has not been discovered before. In this new device the driving pulley is placed on the end of a grinder or polishing lathe spindle. The upright which supports the smaller pulley is designed to be set up at a point that will admit of using standard length belts. The upright support is screwed to the floor, and likewise the adjusting arm. In changing the belt the operator has merely to press his foot on the lever, which releases the dog from the notched adjusting arm, and enables the operator to move the upright arm slightly forward; after which the belt can be instantly removed or replaced. The arm is then drawn up until the proper tension is reached at which point it is automatically locked. Should there be any stretch in the belt, it is also taken up by the delicate adjustment. The endless belts used with these machines are made of two thicknesses of duck with a layer of vulcanized rubber between. They vary in width from one-half inch to six inches, and are twelve feet long over all. Where space will not permit using standard lengths, any special length required can be made up on short notice. The belts are set up by being sized with glue and rolled in emery, and when dry they are ready for use.



Enameled Signs and Letters.

The Benfield & Milne Mfg. Co., Newark, N. J., and No. 92 Fulton Street, N. Y., enamelers on copper and steel, are desirous of obtaining agents among the Hardware trade for a long line of goods that find recognition in every community, including among other salable specialties enameled steel signs for street uses that will stand all changes of temperature without in any way losing their brilliant appearance; also plain block enamel letters and figures for attaching to glass, and letters and figures with holes for house, hotel, steamboat and railroad requirements. Included in the assortment of these goods now possible of attainment, are enamel script letters, bronze letters and figures, aluminum letters and figures, all for attaching to glass or wood, cast figures for house numbering, and glass letters and figures with gold backing for the most artistic sign work. We illustrate herewith a restaurant front from one of our busiest thoroughfares in this city, showing how great a display is possible through skilful use of these new and novel appliances, making an ordinary front present a picturesque and attractive appearance and fully advertising the business that uses this method of attracting attention. The addition of this line to any Hardware stock will be found highly remunerative and entail very little trouble in its distribution.

When you shake hands, give an honest pressure as though you are really glad to see the party, and don't let your hand feel as limp and lifeless as the tail of a fish, in the extended palm of your new acquaintance.

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Recent Trade Publications.

The Iowa Farming Tool Co., Fort Madison, Iowa, are mailing to the Hardware and implement trade their catalogue of forks, hoes, rakes, etc., for the season of 1898. It is a very handsomely printed catalogue of over 100 pages, 6x9 inches in size, printed in two colors, typework in blue and implements in red, and with its artistically embossed cover, makes a very attractive appearance, fully in harmony with the excellence of the goods described in its pages. Among its contents is a telegraphic code, simplfying by its use the usual "rush" orders so prevalent after the season has advanced sufficiently to perceptibly reduce stocks. Its contents embrace in large assortment: scythe snaths and grain cradles, hay, manure, header, stable and spading forks; grain, barley, coke, sluice and stone forks; hoes of every possible style desired; solid and socket shank garden hoes, ladies,' toy, boys,' meadow, mortar and planters' hoes, and a greater variety of such goods than is usually noted, including cultivator, double bit, cotton chopper, scuffle and sprouting hoes. The line of garden rakes shown embraces bow braced and socket shank among the better steel grades, and malleable iron, toy and weeding rakes as well. They are also large manufacturers of Garden tool sets and such specialties as the "Kretsinger Cut Easy" corn hook, the "Hold-Easy" corn, hedge, cane and tobacco knife, etc., etc. This catalogue, covering so large and important a line of goods demanded by the trade, both here and abroad, should be sent for and possessed by those interested.

Johnson & Co., Catskill, N. Y., and No. 84 John Street, New York, have just issued an exceedingly attractive cloth bound catalogue, illustrating in a very complete manner the line of high grade heaters manufactured by them under the names of the Little Gem, Gem, Royal Gem, Crown Gem and Economist, intended either for steam or hot water, as designated in its pages. The catalogue is handsomely printed on fine plate paper, in two colors, and is written in a manner that can be easily understood by the lay reader. As the manufacturers state in their prefatory remarks: "In these heaters we have aimed to embody the very best features known to modern heater construction. An experience of fifteen years in the manufacture of house heating apparatus has made us familiar with, and enabled us to avoid, the defects to be found in many of the so-called up-to-date heaters on the market. We have seen failures and successes and have noted the cause of each. All our heaters are carefully tested and the ratings are conservative and safe, being based on practical tests in winter and on foundry tests in summer." A list of references from parties that now have these heaters in use accompanies the other contents of this catalogue and emphasizes the statements of the progressive manufacturers.

New Jersey Car Spring & Rubber Co., Jersey City, N.J., and No. 10 Barclay Street, New York, have just issued to the trade their new catalogue and price list for the season of 1897 and 1898. It forms a convenient pamphlet of 128 pages, printed on excellent paper, and with an extremely artistic cover in bronze and color. The company note the fact of their having been established since 1858, very few companies antedating them as manufacturers of rubber goods for mechanical purposes. The varied contents of the catalogue embrace about everything that can be produced by such a complete plant as is possessed by this well known company. Among the many articles so enumerated may be mentioned: Belting, of every description, from straight and quilt stitched to more ordinary styles; all the many and various kinds of hose known to the trade; from the usual brewers, fire and mill hose to the more greatly improved steel clad, steel end and wire wound varieties, mats and matting, packing, gaskets, valves, car springs, printers' blankets, etc.,etc. The catalogue is one of sufficient importance to be in the hands of every dealer selling any of this class of goods.

Underhill, Clinch & Co., No. 94 Chambers Street, New York, who have long been agents for O. Ames & Sons Corporation, the manufacturers of shovels, spades and scoops, have recently issued a revised price list dated Oct. 1st, 1897, and embodying in its compilation all the changes in prices made by the manufacturers up to that date. This price list, which is original with Underhill, Clinch & Co., has become highly appreciated by the trade; for expressed in arbitrary list prices, the goods are described properly, and the dealer, by simply taking off the discount in accordance with the discount sheet accompanying the list, finds the net price at once, and has no additions to old prices to worry him, as would be the case if he didn't have this price list to help him. Underhill, Clinch & Co. carry constantly in their extensive stock, 126 different numbers and styles of "Ames" goods; these styles they take especial pains to keep on hand, and it is very rarely that a dealer finds them "out" of anything noted on this price list.

Russell & Erwin Mfg. Co., New Britain, Conn., and No. 43 to 47 Chambers Street, New York, have just issued an extremely handsome and artistically perfect catalogue of store door handles, complete, showing 12 different varieties of locks and latches to be used in connection with the same. It forms a beautifully printed pamphlet of 26 pages, on plate paper, embellished with a profusion of half-tone illustrations and competent descriptions, the construction of which reflects credit upon the catalogue department of this prominent company. The assortment of plain and ornamental handles covers 26 varieties, from the plain and unpretending to the most elaborate in ornamental design that the most exacting architect could demand. The artistic excellence of many of the designs shown in this catalogue excites universal admiration wherever exhibited; they are undoubtedly creations of taste and elegance.

The Tabb & Jenkins, Hardware Co., No. 107 Hopkins Place, Baltimore, Md., have just issued to the Hardware trade their gun and sporting goods catalogue for the Fall season of 1897. It consists of a very attractive pamphlet of 56 pages, 9x12 inches in size, filled with excellent illustrations of almost everything in the line of guns and ammunition demanded by the Hardware and sporting goods trade, and including Parkers, Smiths, Colts and Remington hammerless breech loading shot guns, and a large assortment of other varieties and makes, that must make their catalogue invaluable to the dealer for sales purposes. Gun implements in large variety are shown—shot pouches, canvas and leather goods, and cartridges of every description are fully illustrated, and revolvers of all kinds.

The roof of the new Spence Library of the Union Theological Seminary, at Richmond, Va., will be of fireproof construction. The trusses will be steel, and the covering slate, attached directly to metal supports. One end of the building is round, making a conical shaped roof, and at various points of the roof slope are placed dormers and skylights. The peculiarity of the construction makes the iron work very intricate in order to get the pleasing architectural appearance desired. The contract for furnishing and erecting the steel work for the roof has been given to the Berlin Iron Bridge Co., East Berlin, Conn.

According to Sir Benjamin Baker, the charges of powder in guns have, since the Crimean war, increased from 16 pounds to 900 pounds, the weight of projectiles from 68 pounds to 1800 pounds, and the energies developed from 1100 foot-tons to 62,000 foot-tons. Further changes are rapidly following the introduction of smokeless powders.

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NORTH DAKOTA RETAIL HARDWAREMEN.

In response to the call which was mentioned in a recent issue of *Hardware*, a representative meeting of the retail Hardware dealers of North Dakota was held in Grand Forks, on Wednesday, September 29th, for the purpose of forming a State organization. A statement of the purposes in view was made by C. N. Barnes, of Grand Forks, after which Clark W. Kelly, of Devil's Lake, was chosen temporary president, and George A. McCrea, of Drayton, temporary secretary.

It was decided by unanimous vote that an organization should be formed. The following committees were then appointed by the chair:

Resolutions and by-laws; H. N. Joy, Hamilton; C. N. Barnes, Grand Forks; H. F. Strehlow, Casselton; W. H. Pinkerton, Lakota, and W. R. McIntosh, Bottinneau.

Permanent organization: P. L. Pritchard, Hillsboro; J. F. Newgaard, Grafton, and A. H. Duntley, Grandin.

A recess was taken until the afternoon, and on reassembling, the committee on permanent organization made the following recommendations:

1. We recommend a permanent organization.

2. The organization shall be known as the North Dakota Retail Hardware Association.

3. We recommend as president, Clark W. Kelly, of Devil's Lake; vice-president, C. F. Jacobs, of Hillsboro; treasurer, George A. McCrea, of Drayton; secretary, C. N. Barnes, of Grand Forks.

The report of the committee was accepted, and the officers were unanimously elected. The committee on constitution and by-laws then made a report, and the various sections were read and adopted. The following gentlemen, in addition to the vice-president and secretary, were constituted an executive board: H. N. Joy, Hamilton; H. F. Strehlow, Casselton; W. H. Pinkerton, Lakota; J. F. Newgaard, Grafton; J. C. LeBeau, Grand Forks; A. H. Duntley, Grandin, and A. J. Smith, Fessenden.

RESOLUTIONS.

The following resolutions were also adopted:

Resolved, That the members of this association confine the purchase of Hardware, Stoves and Tinware to manufacturers and wholesale dealers who sell goods only to firms that are regularly engaged in the retail Hardware business as defined in these resolutions.

Resolved, That it is the sense of the convention that the interpretation of the term "retail Hardware dealer," as set forth in the above resolution, to entitle him to purchase Hardware, Stoves and Tinware, to be construed to mean any persons having an established place of business and carrying a line of Hardware, Stoves and Tinware, and such goods as are usually kept in a first-class Hardware store.

Resolved, Any manufacturer or jobber soliciting orders or selling goods in any town or city where a member of the North Dakota Retail Hardware Association is located and doing business, except it be to an exclusive Hardware dealer in such town or city, shall be considered as working against the interests of said association; provided that nothing of this article shall be so construed as to prevent manufacturers or jobbers from selling to manufacturers in any city or town goods actually used in articles manufactured by them, nor from selling to railroad or transportation companies. The interpretation of this resolution is hereby vested in the Executive Committee.

Resolved, That any manufacturer or jobber in Hardware, Stoves or Tinware furnishing net prices or any discount from list prices contrary to the foregoing resolutions, either by themselves, employes or agents, shall be considered as disapproving of the above resolutions.

Resolved, That this association shall, as far as lies in its power, keep a record of all goods sold, and by whom sold, to catalogue houses and department stores, and of all other violations of these resolutions.

Resolved, That any member purchasing goods from any manufacturer or jobber who has been listed by the Executive Committee as disapproving of these resolutions, shall be subject to fine or expulsion, at the discretion of the Executive Committee.

Resolved, That every member of this association is constituted a committee of one, and is expected to report to the proper officers in this State any violation of these resolutions.

Resolved, That these measures are just and necessary for our welfare, and a rigid enforcement is demanded.

Resolved, That this convention indorses the above and urges its officers to use their best efforts to bring about the formation of a national association with the end in view that a uniform system of protection for the trade will prevail throughout the entire country.

The thanks of the Association were tendered to C. N. Barnes for his efficient work in bringing about the organization, and also extended to J. E. O'Brien, of Crookston, Minn., for his attendance at the meeting, and for his valuable advice and assistance. It was ordered that the next meeting should be held in Grand Forks in February next.

SOME SPEECHES.

During the session a number of speeches were made, one of which was by T. G. Walthers, of the C. W. Hackett Hardware Co., of St. Paul, who spoke from the standpoint of a jobber. Remarks were also made by A. M. Marshall, of the Marshall-Wells Hardware Co., of Duluth. The chief address of the occasion, however, was delivered by J. E. O'Brien, of Crookston, who spoke in full as follows:

"Owing to the many matters that have commanded my attention in the past few weeks, I come before you, I may say, wholly unprepared to discuss the subject that you meet here to-day to consider, representing what I am pleased to call your 'brothers from Minnesota' in this great movement to better trade conditions, and on behalf of our president and the members of our organization to welcome you into our brotherhood, and bid you God speed in your efforts directed against placing the vast retail business interests of our country in the hands of a few, there to be controlled and manipulated in years to come by trusts and combinations that the few can form to the detriment of the masses. It is not impossible, should present trade conditions exist, to see the retail Hardware business worthy of mention of your great State placed in the hands of a few men—three or four located under three or four roofs, in possibly two cities—and should that condition be brought about what will become of the now convenient market place for the great mass of your people that are engaged in agriculture? Will they be compelled to flag a train when they want to send their produce to market?

"What will become of your beautiful cities, towns and villages that dot your fertile prairies; that to-day are used to a great extent in measuring and determining the value of the farm lands that surround them? Will their business blocks become tenantless and taxless? What will become of the great army of trustworthy and capable young men who are acting in the capacity of our confidential clerks, for we find that nearly every person we employ must be qualified to fill that important position many times during the year, and they command a salary measured by their honesty, integrity and ability that will furnish them a comfortable living for themselves and their families. Will they have to give way to persons who require the con-

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stant care and watchfulness of an overseer, and this oftentimes at an age when they should be receiving an education, and who rarely ever rise above the position they occupy, and whose situation is always for sale to the lowest bidder, because it can be filled at any moment by almost any person?

"What will become of your farmer who has to ask his merchant for credit from spring to fall? Will he be compelled to give up his home, and he and his family work like slaves for some capitalist at low wages all their lives?

"No, my friends, this centralization of the vast retail business interests of this country must not continue. The Minnesota retail Hardwaremen have spoken in plain and no uncertain tone, and the force of their arguments is felt at every trade center in the United States, and re-echoes back with a cheerful submission to the will of our organization. Organization is mighty, but it must be complete. It must embrace every person interested in its success. Petty jealousies must not interfere with this plain duty that we owe ourselves, our families and our country; but united we should stand for fair and reasonable principles that should govern our organization. We are not monopolists; we are anti-monopolists. We aim to increase the number of dealers in our line of trade rather than decrease them. Where trade is concentrated in the hands of a few, there monopoly has its birth. Where it is placed in the hands of the many, monopoly is unknown. The principles for which we contend mean the upbuilding of your cities, villages and towns. If we fail, a few dealers in large cities will control mercantile trade in all its branches, crushing out all rivalry in your State, and erecting the despotism of their monopoly to the great detriment of your people. In conclusion, I wish to say again that the Minnesota Retail Hardware Dealers' Association welcomes your organized effort, and will be in full accord with you in the enforcement of your resolutions, and ask of you that you give your support toward the organization of States now organized into a national organization, for it is on the successful consummation of national unity that the success of this movement largely depends."

The Turning of the Worm.

The driver of the ice wagon was surprised to see the occupant of the house sitting on the front doorstep as he drove up. As soon as the wagon stopped the householder was at the curbstone with his eyes fixed on the scales. The ice man paid no attention to him, but, after weighing a small chunk, started toward the house with it.

"Hold on," said the customer, "I'll take that in."

"You needn't bother."

"But I know just where to put it."

"All right. But you want to be quick, for it's a warm day, and we'll have to deliver the stuff in sponges if we let it stay out in the sun much longer."

The customer siezed the tongs and dissappeared. In a little while he came out of the house, and, seating himself on the doorstep, began to whistle.

"Well! well!" shouted the ice man. "I can't stay here till next winter."

"Are you waiting for anything?" inquired the customer, blandly.

"Of course, I'm waiting for something. I want my tongs."

"What tongs?"

"The tongs you just used to carry the ice in."

"Oh! I'm sorry; but I don't care to lend them."

"Well, whose tongs do you think they are?"

"Mine."

"Maybe you've gone down town unbeknown to anybody and bought out the ice company with all its furniture," was the sarcastic rejoinder.

"No. But I bought those tongs. I pay you so much a pound for your commodity, don't I?"

"Yes."

"Well, I noticed that the tongs were weighed in with the rest, and I'm not going to pay for tongs at so much a pound and then not get them. I have been taking ice from you for the last three months, and that makes at least ninety pairs of tongs still due me. If you have any proposition ready, to trade off ice for tongs, I'm willing to listen to it." —*Washington Star.*

Muskets.

While the introduction of portable firearms into Europe is of comparatively recent date, their use was frequent among the Mohammedans of Eastern Asia at a very early period. La Brocquiere, who made a journey to Jerusalem in the middle of the fifteenth century, and who traveled extensively in the East, mentions the firing of small harquebuses at the great festivals in Damascus.

The first use of muskets in Europe was at the siege of Rhege in 1591, by the Spanish soldiers. These arms were so extremely heavy that they could not be used without a rest. They were provided with matchlocks, and were effective at a considerable distance. While on the march the soldiers themselves carried only the ammunition and the rests, and boys, bearing the muskets, followed after, like caddies on a golf-course.

Loading these cumbersome arms was a slow operation. They were clumsy and awkward to handle, the ball and powder were carried separately, and the preparation and adjustment of the match took a long time.

Before long, however, improvements began to be made. The guns became lighter in construction, and the soldiers carried their ammunition in broad shoulder-belts called bandeliers, to which were suspended a number of little leather-covered wooden cases, each of which held a charge of powder. A pouch, in which the bullets were carried loose, and a priming-horn hung at the sides of the soldier.

As late as the time of Charles I. muskets with rests were still in use, and it was not until the beginning of the eighteenth century that firelocks were successfully employed.—*Harper's Round Table.*

Business Man's Talk.

"No," said the Hardwareman to the farmer, as he tied up the package of nails in the paper, "as you say, people talk about the low price of what they buy. Take those nails, now. What do you suppose those nails would cost you ten years ago? Just about six cents a pound, and now you can take the lot of better goods at three cents and the extra wrapper thrown in. That's not much, you say. Not so much on a little lot of nails, perhaps, but ten cents isn't much on the bushel of potatoes you brought in just now, and that's all the difference in price from ten years ago, and yet you grumble at the low price. It's not the pound of nails that hurts me. Everything in my store has gone down the same way. Your wheat and hay and chickens and butter and eggs bring you substantially the same prices they did ten years ago. You farmers forget that you have things to buy as well as things to sell. Want to buy a plow this year? There's a dandy for $12. Ten years ago I'd have asked you $16 for it. There's $4 saved to you at one clip. There's a better planter than the one I sold you ten years ago for $60—a whole lot better. Take it along for $40. Remember that binder you bought of me ten years ago for $189? Must be worn out, eh? I'll sell you a fifty per cent. better one to-day and throw off the $89. You farmers don't know when you are well off."—*Superior (Neb.) Journal.*

"What are you going to be when you grow up, my boy?'
"A king," answered Willie proudly.
"And you, Dickie?"
"I guess I'll be an ace."—*Detroit Free Press.*

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Review of the Markets.

The season for ordering largely for present requirements being limited now more especially to the retail trade, finds the markets for leading goods without material changes, the few that occur being of minor importance and having no bearing upon such sales as are referred to. Every day that passes indicates additional strength to the business that has done nothing but progress for months. The reports from correspondents show favorable conditions throughout the country with every prospect of profitable continuance until the holidays are passed. The jobbers are doing well, and the retailers find increasing demands daily creating additional wants.

Wire Nails: The mills continue to be well supplied with orders for future delivery even into early November, a steady demand being noticeable, no great fluctuation in price having occurred to deter purchasers from laying in stocks. Prices continue very firm, being represented at $1.50 for carload lots at mill. New York quotations are represented by $1.65 for carload lots on dock. Smaller lots from store $1.70@$1.75 in accordance with quantity.

Cut Nails: The market for cut nails, after advancing the price 10 cents a keg, pursues the even tenor of its way without marked characteristics, the mills east and west being supplied with good orders both for home and export trade. The eastern and western mills are still working on the established basis of the Pittsburg price being $1.28, with freight added to destination to make local quotations, New York price being held at $1.43 for carload lots and an addition of 10 cents a keg for smaller lots from store.

Shovels and Spades, etc.: The changes agreed upon by the manufacturers to take effect October 1st have already been placed in operation, and universally accepted by the trade, the advance being too slight in character to make serious cause for complaint under the favorable conditions now prevailing.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, quote prices as follows: In lots of less than 5 barrels, 35 cents per gallon: in lots of 5 barrels or more, 34 cents per gallon. Boiled linseed oil, 2 cents per gallon higher. Calcutta oil, 54 cents per gallon.

THE PITTSBURG TRADE.

September sales were quite satisfactory, and up to the mark of years preceding the slump of 1893, so that we may say that trade is in very fair condition, and will continue to improve from month to month. We are glad to find the change coming so gradually, as it gives hope of longer continuance in the new order of things.

The new Bessemer railroad of the Carnegie interest opens for business to-day (Oct. 4th). This road proposes to deliver ore from the whalebacks to the furnaces, at freight rates very much below anything heretofore known, the return trip to carry coal.

Seasonable Hardware is moving off well, as weather conditions are favorable. The improvements in gas stoves have brought these goods into very general use throughout the natural gas section. Oil stoves also are in good demand.

Collections are about up to the average. Where the coal strike affected trade, merchants have to wait until the men get one or two "pays" before they get in much money, but this will soon be remedied. Our manufactories are generally running full time.

Logan-Gregg Hardware Co.

THE ST. PAUL TRADE.

Our section is much pleased with the McKinley administration, first, because "Mac" gave us a fair crop, and again because he puts a good price on all the farmer has to sell. Comparing this year with last, there will be much more money in the hands of the farmer, and of course they buy some Hardware as well as other things. We are not having a boom, but we are having a good business, and expect it will continue so until the holidays. Prices are still badly cut, especially on staples, but we hope, with an improved business, this will stop.

The reports from all our territory show that the farmers are paying up mortgages, and generally getting themselves into better shape than ever before.

C. W. Hackett Hardware Co.

THE PHILADELPHIA TRADE.

From all sides we still hear reports of greatly improved trade conditions, and busy factories and employed workingmen tell the story of the better times which are coming.

In some lines of goods the improvement has been most manifest, and firmer prices point to a similar improvement in our own line in the near future.

Nails are still on the upward path, and with further advances almost in sight.

The shovel men have succeeded in making their advance, and manufacturers are withdrawing extreme quotations and feeling their way towards more remunerative prices.

Collections also seem to show that there is more money in the country, especially in the farming communities. As an illustration: One of our salesmen, in the agricultural section, recently reported that he knew a case where a farmer who was driving to a nearby town with a wagon of tomatoes, stopped at a country store and said on his return he would wish to buy some goods. On his way back in the evening he stopped, and not only paid for the goods, but said that he had made as much money off his one wagon load of tomatoes as he made last year off of ten acres.

Almost all farming products have brought better prices this year, and the results cannot but make themselves known in the greater demand for manufactured goods of all kinds, and, while the change in business promises to be gradual, it will probably be all the more sure and steady in consequence.

One of the most remarkable signs to-day is that so far the cost of manufactured goods has been but little changed, although raw have in some lines, advanced. We heard the other day of a textile manufacturer who had on hand a large amount of raw material which he said he could dispose of at a profit of 50 per cent. above cost. In order to run his factory, however, he was obliged to use this raw material and turn it into manufactured goods on which he could not realize at present one per cent. of an advance on the old, unprofitable prices. Of course, this condition of affairs cannot continue, and an advance which has such justification is the best possible basis for permanency.

Biddle Hardware Co.

In the manufactured iron line, shipments to Germany have been quite satisfactory. The steamer *Persia*, on her recent sailing, had on board $15,000 worth of machinery, not including pumps, of which there were $6000. Of sewing machines, there were shipments aggregating in value $18,334; in Hardware, $10,000, and in other materials made of iron and steel, the shipments on the steamer were un usually large.

Brown Bros., Hardware, stoves and furnaces, Montgomery, N. Y. *Publishers Hardware:* We are satisfied with *Hardware*, which is of value to the trade. Enclosed find check for subscription.

The Merchants' Association will be represented at Nashville next week, on the days set apart and known as Brooklyn Day, New York State Day and New York City Day.

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A Glass Trust.

From Columbus, Ohio, comes the fact that the glass manufacturers who met there last week organized one of the most gigantic associations, from a commercial standpoint, that has ever been formed. They represent practically the entire glass industry of the United States, and their purpose was to bring under one head every glass manutactory in the country. Only the details of the organization remain to be completed, and these are expected to be adjusted not later than the 12th inst. The association is said to represent as much capital as the Standard Oil Co.

The president is H. Sellers McKee, of Pittsburg, who is at the head of the largest glass manufacturing concerns in America. The secretary is E. I. Phillips, of Newcastle, Pa., another large manufacturer. J. A. Chambers, of Pittsburg, who ranks with the other two, is to be the general manager. The board of directors includes the following, besides the president, secretary and general manager: T. F. Hart, Muncie, Ind.; H. B. Smith, Hartford City, Ind.; W. A. Gorby, Gas City, Ind.; William Loeffler, Pittsburg.

The directors left for New York to complete the organization. It is expected to procure the charter for the new association in New Jersey. The object is to stop the cutting of prices and insure a reasonable profit for all. Each company will be operated separately, the association controlling the prices and output.

An Effectual Remedy.

His firmly set lips and the square cut of his side whiskers showed at a glance that he was accustumed to surmount obstacles instead of yielding to them.

"We were a day late in getting that piece of work out," he remarked to the superintendent of his business.

"Yes it was one of those unfortunate things that couldn't very well be avoided."

"What was the matter?"

"You will remember that the order reached us on Friday morning. It was a pretty big job and the foreman hated like everything to begin it on Friday. The men all looked kind of glum when we talked about taking it up on that day and, to tell you the truth I didn't like to begin it on Friday myself."

"What's wrong with Friday?"

"Nothing. Only you know the old superstition about its being an unlucky day. Of course, everybody feels a little ashamed of it, but, just the same, everybody recognizes it and is more or less afraid of it."

"And you mean to tell me that this superstition has saturated these shops so that we're liable to be delayed on a contract if Friday happens to interfere!"

"I'm afraid that is the case."

"Well, I'll fix that."

"It will be hard to do."

"No, it won't. It will be the easiest thing imaginable. You notify the bookkeeper and the cashier that hereafter instead of paying off on Saturday, all employees will get their money on Friday. That'll arrange things so that instead of regarding Friday as unlucky, they'll spend the other six days wishing for it to come around."—*Detroit Free Press*

Young Men Out of Employment.

A publication representing the Y. M. C. A. in an Eastern trade centre says: There are large numbers of young men out of employment at the present time, and it is trying for us not to be able to place the many who apply to us. When scores of young men are ready to step into the first place that offers, a very little thing may turn the scale for or against a man. The following may be suggestive:

1. Expect to find work every day.
2. Never get discouraged
3. Don't go from city to city.
4. Spend eight hours a day looking for work. If you had a position you would be expected to work that many hours.
5. Be in earnest.
6. Remove your hat when entering the office.
7. Be neat and clean in your personal appearance.
8. Don't have the fumes of tobacco on your breath and clothes.
9. Have nothing to do with intoxicating liquors of any kind.
10. Impress the gentleman on whom you call that you must have something to do.
11. When you get a position stick to it. Don't leave it unless you are sure of bettering yourself.
12. If you desire to advance, make your employer's interest your interest.
13. Say but little and do a good deal.
14. Be prompt and don't watch the clock for closing time.
15. Keep yourself thoroughly posted.

The degree of rapidity with which heat is abstracted from steel during the operation of hardening is as important to-day as it ever was. Roughly speaking, if steel has to be made glass hard, ice-cold water, brine or mercury is used; if it has only to be made slightly hard, hot water or oil may be employed; while both hardening and tempering may be united in a single operation by plunging the hot metal in a bath of molten lead or other suitable metal, which will, of course, abstract the heat more slowly—*Prof. W. C. Roberts-Austen.*

In 1801 there were only 280,000 persons in the limits of the United States who spoke German as a mother tongue. Now over 7,000,000 of our people, Germans or descendants of Germans, read and speak that language.



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Activity in War Materials.

It is in the heavy industries more than in the light trades that Sheffield holds her own. In war material there never was a time when so much plant and machinery were employed on the various kinds of work. All our large firms who make a specialty of offensive and defensive material are quite actively engaged, the only drawback being the hitch caused in several departments by the enforced idleness of the engineers. This applies more particularly to the planing departments in the armor-plate mills. Without their aid the armor cannot be finished. The stoppage comes at an exceptionally awkward time, for, after waiting the results of the trials of the new plates produced under the conditions laid down by the Admiralty of the type "made in Germany" by Herr Krupp, fresh orders for the whole of the side armor of four battleships had been placed with Messrs. John Brown & Co., Ltd., Atlas Works and Messrs. Vickers, Sons & Co., Ltd., River Don Works. The latter company have obtained during the last three weeks some excellent orders for the new plates. These include work for the British Government, as well as foreign powers. One good "line" is for the plates of a large battleship now being built on the Thames. Messrs. Vickers have been commissioned by Her Majesty's Government to build a first class battleship at their shipyard at Barrow-in-Furness, which they have now taken over and paid for. They have also been successful in guns, the company's design for a new 12-inch gun, with their patent mechanism, having been accepted in competition with other designs. A new 6-inch quick-firing gun, with the company's patent breach-loading appliances, has also been made for the Government, and the directors state that this gun has passed a most successful trial at Woolwich and Shoeburyness, a much higher velocity having been obtained from it than with any previously tried gun. In projectiles, the Hadfield Steel Foundry Co. have succeeded in piercing Harveyed armor plates, with two of 6-inch calibre, of special design and quality, fired with a velocity of 1960 and 1940 feet per second. A Hadfield armor-piercing projectile, 6 inch calibre, has also pierced a 9-inch special steel and water-hardened plate of Sheffield manufacture. Thus the battle of plates versus projectiles goes merrily on.—*Hardware Trade Journal.*

Estimates of pig iron production in Great Britain for the first half of the year put it close to 4,500,000 tons as against 4,403,476 as officially ascertained, for the United States in the same period. At the same time iron in public stores, in Great Britain, decreased 194,000 tons, while in this country there was an increase of 126,000 tons in stocks between January 1st and July 1st. The half year thus appears to have been one of great prosperity in Great Britain, the consumption of iron probably being the largest on record for a half year. Last year the pig iron production in Great Britain and this country was 8,563,209 and 8,623,127 gross tons respectively. The indications are, from the considerable increase in production promised for this country in the remainder of the year, that the figures for 1897 likewise will not be far apart.

A Broad Street export firm identified with the Mexican business, claims that last week buying for that market has been more active than for some time past. Among the manufactured articles bought in the last few days were mentioned $3000 worth of boiler plates, a carload of wheelbarrows, two large pumping engines and upwards of $4000 worth of Hardware and tools.

Honesty is the best policy for the merchant as well as the clerk —*Hardware and Metal Reporter.*

IN LAST "HARDWARE"

We explained why **VULCANITE EMERY WHEELS** are safest. They also cut faster and wear longer than other wheels. Why? The faster a cutting surface revolves, the faster it cuts and the slower it wears. Because Vulcanite Emery Wheels are made with rubber, they don't crack; because they don't crack, they run with perfect safety at higher speeds than any other wheel; because of higher speeds, they cut faster and easier and wear longer. **Safer work, more work, longer wear---mightn't it pay you to investigate?**

BELTING, GARDEN HOSE, WATER HOSE, FIRE HOSE, SUCTION HOSE, STEAM HOSE, AIR HOSE, TUBING	*Chicago*, . . . *143-145 Lake St.* *Boston*, ... *24 Summer St.* *Philadelphia*, . *308 Chestnut St.* *St. Louis*, . . . *210 N. 12th St.* *Indianapolis*, . *79 So. Illinois St.* *San Francisco*, *509-511 Market St.*	PACKING, GASKETS, VALVES, RUBBER TILING, RUBBER MATTING, EMERY WHEELS, SPECIALTIES, LEAGUE TIRES.

NEW YORK BELTING & PACKING CO. LTD

PIONEERS AND LEADERS, 25 PARK PLACE.

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Rivets, PATENTED NOVELTIES. Washers, Specialties in WIRE & SHEET METALS. Springs,

Stamping, CLOCK TRIMMINGS. Drawing.

Press work a specialty. Plainville, Conn. Your dies or we will make dies for you.

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PROMPT! RELIABLE! PRICES O.K.

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TIFFIN, OHIO.



"SATISFACTORY RESULTS ON INVESTMENT."

Aladdin Lamp Co., Newark, N. J. [*Bicycle Lamps*]: We think that the Hardware trade is one of the best to handle the side line of bicycles and bicycle sundries, as it seems to be in perfect keeping with the other lines of goods which are kept in stock. We are also of the opinion that the trade will, in time, be controlled by a very few exclusive stores, and a large number of Hardware and carriage warehouses, where the bicycle can be sold at a legitimate price as a side line. Regarding HARDWARE it has always given us satisfactory results on investment made.

Iron Working in Central Africa.

The working of iron is certainly the most advanced art in this region of Africa. The ore is mined, smelted, and fashioned by the natives with great skill. Outside many of the villages stands the village smithy, merely a roof of shade boughs and grass supported by stakes. Here congregate the village gossips, who justify their presence by an occasional turn at the bellows. The tools are primitive, a rock for an anvil, a weighty stone for the sledge, and pieces of iron bound to wooden handles for the finer shaping and ornamental work. The bellows consist of two goatskins, each furnished with an open mouth like a purse, and connected up by a piece of bamboo pipe to a narrow clay union nozzle about nine inches long.

The blower sits on the ground, seizes the mouth of each skin in either hand, and raises and lowers them alternately, first with the mouth open and with a quick upward stroke to take in the air, then with the mouth closed and a tremulous downward pressure to force the blast. By this rude process, a hot charcoal fire is maintained, and the work turned out is excellent for the primitive implements used. Knives of great utility, and which take a good rough cutting edge; arrowheads and spears, many of them curiously barbed and twisted, and some showing a knowledge of the value of the "blood groove"; axes for battle and for general purposes, ornamented with linear patterns and beaded edges, and with the blades set at an acute angle to the shaft so that every ounce of power is transmitted in the direction of the blow.—*Geographical Journal.*

STUBS' TOOLS.

FRENCH FILES & RASPS.

S. J. ADDIS' LONDON CARVING TOOLS.

HAMMACHER, SCHLEMMER & CO.

DIRECT IMPORTERS

209 BOWERY NEW YORK.

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Seymour Cutlery Co.,

ESTABLISHED 1839.

—SUCCESSORS TO—

HENRY SEYMOUR CUTLERY CO.,

Office and Factory, Holyoke, Mass., U. S. A.

Seymour Shears ARE THE STANDARD.



Every pair is fully warranted and if found imperfect from any cause will be replaced with perfect shears.
No commission house is sole agent for the SEYMOUR SHEARS.
Notice our imprint on every paper pocket inclosing shears.
Write for Catalogue and prices.

OILERS

25c.



Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—

10c.



The Best Medium Grade Oiler.

Made in best manner possible.
Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

Our Electric Equipments.

When the Central London Railway a few weeks ago gave its order for car, locomotive and electrical equipment to American manufacturers there was a considerable undercurrent of ill-feeling noticeable in the comments of the English daily press, which took the stand that these orders ought to have gone to English firms. It is a satisfaction to note, however, that no such grumbling was manifested on the part of the English technical electric press. The reasons which dictated the giving of the order to America are well put in a recent interview with the secretary of the Central London Railway, published in the *Railway News* of London. That gentleman states that his company was influenced by the advice of the best electrical experts, who stated that the more extensive use of electric traction in the United States had brought the manufacture of plant and material to a higher pitch of perfection and to a much lower cost than had been reached in England. Our tools and manufacturing machinery were much in advance of theirs, as was to be expected when the small amount of electrical traction construction in England is considered, and as it was the desire to equip the line in the very latest and best manner, no recourse was left but to go to America for the material.

This tells the story in a nutshell. American electric railway apparatus goes to England for the same reason that smaller American machine tools find a profitable market there. It represents, as do the latter, a product peculiar to American skill and experience, and as long as we keep in the van with these manufactures we will probably find a market for our goods. It must be apparent, however, that as time passes the English manufacturers will gain that experience which is now our particularly valuable stock in trade, and that we cannot always hope to secure such sweeping orders as that for the Central London Railway equipment. But by keeping in advance we may still hope to stave off that day for some time to come. If England does not go extensively into electric railroading, her market for such electrical apparatus will be ours. Should she develop a large electric railway industry, she will certainly manufacture herself the supplies necessary. The present situation reflects on her slowness in making the change from horses and steam, and not on the ability of her electrical engineers and manufacturers.—*Electrical Engineer*.

Help Wanted.

W. W. Lawrence & Co. Pittsburg, manufacturers of white lead, paints, colors and varnishes, want several salesmen for Ohio, Indiana, Michigan and Pennsylvania. Young men preferred.

For Sale.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S M. care HARDWARE, No. 143 Chambers Street, New York.

DON'T FORGET US!

WE WANT YOUR "ORDERS."

Shafts, Poles, Rims, Bows, Cross Bars, &c.

OUR O. S. G. BRAND

Our large number of ORDERS convinces us that the WORLD appreciates our

HIGH QUALITY AND LOW PRICES.

OUR PLEASURE TO QUOTE OR ANSWER AN INQUIRY.

GEO. S. PARKES & CO.,

NASHVILLE, TENN.

OUR ADVERTISEMENT HAS PAID US.

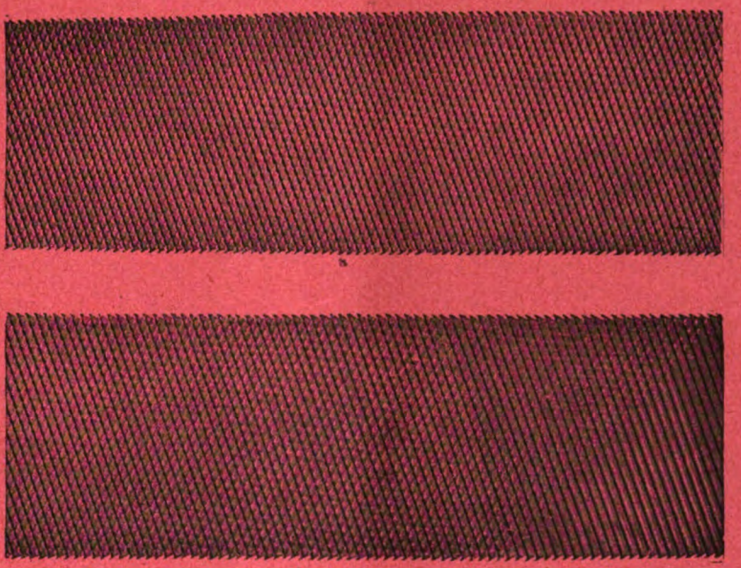
Ralph Temple Cycle Co., Chicago, Ill. [*Bicycles*]: We take great pleasure in stating that our advertisement as placed with HARDWARE during the past two years, has certainly paid us, as we believe the Hardware trade is one of the best classes of trade to work for the sale of bicycles, as in most all cases Hardware concerns are financially all right. We shall, without question, advertise with you for the coming season, and we wish you, and the handsome journal published by you, the very best of success.

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Some Common Sense about Files.

Nearly every mechanic knows that the difference between a hand cut and a machine cut file consists in the irregular spacing of the teeth—the difference of thousandth of an inch, more or less. For some reason which has never been discovered, files with this irregular spacing—which up to a recent date was a peculiarity of those made by hand—took hold of the work better than those with regular spacing, so that quite naturally file hands have come to prefer the hand cut to the machine cut, and a good many manufacturers found it economical to furnish the former, although they cost more. Within a year or two, however, file manufacturers have been experimenting with machine made files having irregular spacing, and Mr. Alfred Weed, of the Arcade File Works, has produced what is known as the Weed Increment, cut by a patent flexible chisel which throws up an exact reproduction of the hand cut file; so exact indeed that in a well known eastern shop the Arcade Increment Cut Files, with the name obliterated, were recently handed out to the men who had previously been using hand cut files, and not one of them knew the difference. They went ahead with the Arcade Files and obtained as good results in every way as they have previously done with the more expensive hand cut files. And, in fact, there is no difference either in appearance or in results—the only difference is in the cost. Thousands of dozens of the Arcade Files are now being sold in Great Britain where hand cut files have been used almost entirely, and we fill orders sent us with the distinct provision that the Weed Increment Cut File will do as good work and wear as well as any hand cut file made, or the goods may be returned at our expense.

Which is hand cut?



One of these is a hand cut file; the other is the Weed Increment Cut. The only difference is in the price.

SEND US A TRIAL ORDER ON THIS BASIS--YOU RUN NO RISK.

New York, 97 Chambers St.

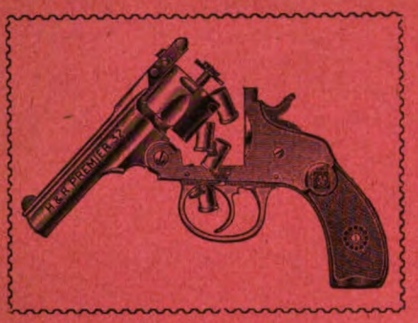
The Arcade File Works,

WORKS, Anderson, Indiana.

Chicago, 118 Lake St.

ENGLISH AGENTS: Wm. E. Peck & Co., Manchester House, Friday St., London.

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Harrington & Richardson Arms Co.



MANUFACTURERS OF

HIGH AND MEDIUM GRADE REVOLVERS.

The trade supplied by special gun houses. If you have not received our new catalogue you can have one by writing for it. We furnish our revolvers with either blued or nickel finish, and hard rubber handles. We can furnish rings for any style we make so they can be carried on a belt. Our present make comprise the following named revolvers. Our catalogue tells the rest.

H. & R.
Premier Automatic,
22 cal. Rim Fire.

H. & R.
Premier Automatic,
32 cal. Cen. Fire.



H. & R.
Automatic, 32 and
38 cal. C. Fire.

H. & R.
Police Automatic,
32 and 38 cal. C. Fire.

American Double Action,
32, 38 and 44 cal. C. F.

Young America Double Action.
22 Rim Fire and 32 cal. C. F.

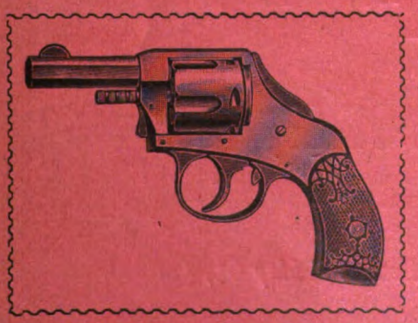
H. & R. Bull Dog,
32 and 38 calibre Rim Fire.

Young America Bull Dog,
32 calibre Rim Fire.

Vest Pocket and Young America Safety,
32 calibre C. F.

Safety Hammer Double Action,
32, 38 and 44 calibre C. F.

44 Calibres adapted to the Webley cartridge.
32 and 38 C. F. adapted to S. & W. cartridges.



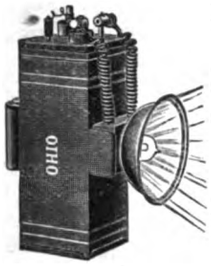
Worcester, Mass., U. S. A.



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WE UNDERSELL ALL.

It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights	$4.0
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells....	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . . Catalogues free.

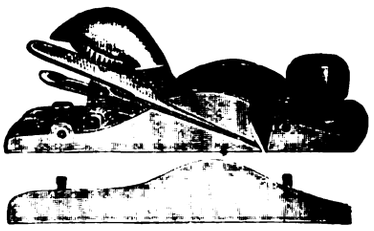
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

STANLEY'S RABBET AND BLOCK PLANE.



A detachable side will easily change this Tool from a Block Plane to a Rabbet Plane, or *vice versa*. The cutter is set on a *skew*.

No. 140. Rabbet and Block Plane, with detachable side, 7 inches in length, 1¾ inch cutter $1 25

Heard and Seen in the Trade.

It is reported that the Belcher & Taylor Agricultural Tool Co., of Chicopee, Mass., have completed the purchase of patents, patterns and good will of the Eclipse Corn Planter Co., of Enfield, N. H. It is said that this company had been doing a steadily increasing business in the sale of this machine, until for the last year their sales amounted to $20,000. The new machine distributes and fertilizes the corn. The Belcher & Taylor Co. have never made a corn planter, and will make a push for a big business on this machine. The New Hampshire company has sold the machine only in New England, but the effort of the Belcher & Taylor Co. will be to hold this trade and to extend it to the West and other parts of the country.

The *San Francisco Chronicle* says that Hardware dealers feel very much encouraged with the outlook and several of the largest dealers are filling more orders now than they have at this time of the year for some years past. The good prices for the crops are encouraging country dealers to buy more liberally, and even thus early farmers are buying new implements, wagons and carriages. Prices show but slight advance in some lines, but merchants are confident that the improved conditions will place this line of business on a satisfactory basis before the spring trade opens.

Fire in the nail works of Phillips, Townsend & Co., on Glenwood Avenue, Philadelphia, Pa., caused an almost total loss to the establishment. Soon after the fire started an oil tank exploded, blowing out a portion of the roof and walls. The origin of the conflagration is not known, and the loss is about $35,000, with sixty hands thrown out of employment.

W. C. Heller & Co., Montclair, N. J., are mailing to the trade an original and unique postal card, which presents the appearance of one of their well-known and popular shelf boxes, in what might almost be called life size. It is very characteristic advertising, and forcibly illustrates the handy and convenient Hardware equipment possible in a store adopting these useful appliances; which, as the manufacturers state, being made from steel, "will last longer and give better satisfaction" than is usually the case with those made by a local artisan.

The door nail in earlier times was the plate of the door upon which the old-fashioned knocker struck to arouse the inmates of the house. As the plate or nail was struck many more times than any other it was assumed to be more dead than other nails. Hence the phrase, "Dead as a door nail." If old ideas are to be revived, as now seems possible, the phrase may soon have a present application.

It is reported that a revolver carrying eight shots will shortly be placed upon the market. J. M. Browning, of Ogden, Utah, is the inventor of this new weapon, and it is said that he is negotiating with the Colt's Firearms Co., Hartford, Conn., with a view to having it manufactured and placed upon the market.

In England, an act of Parliament in 1624 prohibited the granting of exclusive privileges in trade, with the exception that letters patent might be issued for a term not exceeding twenty-one years, "for the sole working or making of any new manufacture within this realm to the first and true inventor of such manufactures."

John C. Bader, one of the oldest Hardware merchants of Jackson, Mich., passed away some days since in his 66th year. He was a native of Germany, and settled in Michigan in 1852, and for the past 27 years has been engaged in the Hardware business.

A dispatch from Vancouver, British Columbia, says that four trains loaded with American bicycles and agricultural implements, have left Toronto for shipment to Australia.

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.



THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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THE ADVANTAGES OF BUYING

PHILLIPS' SNOW SHOVELS

ARE THESE:

The blades are in one piece.

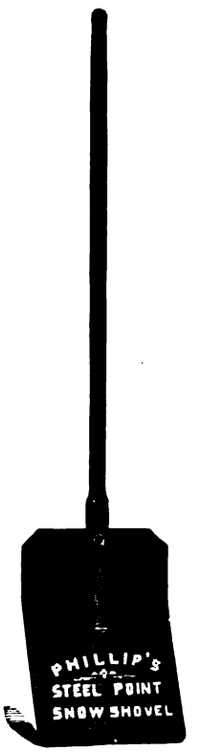
The bent blade shovels are bent sufficiently to be of proper form. (A mere kink does not make a well formed shovel.)

Phillips' best shovels are varnished. If you ever "carried over" any "oiled" shovels, you can see the advantage of having varnished ones.

Phillips' shovels are made for use. If you have lots of snow to shovel you can afford to buy a new No. 1 bent blade shovel every day, in the saving made over handling snow with the best iron shovel ever made. It is better to lift a good quantity of snow with a light wooden shovel than a small quantity with a heavy iron one. An iron shovel may last longer but a good wooden one is sufficiently durable and far better to use.

Do not allow your jobber to sell you anything that is the "same thing as Phillips'." There is a difference that is very plain when the imitation is placed beside the genuine article.

If it is worth your while to please the man who buys and uses the shovel, **order Phillips' goods.**



The A. J. Phillips Co., FENTON, MICH.

OHIO METAL CO.,

NORWALK, OHIO.



Awarded the Medal at Atlanta Exposition

Incorrodible Steel Hitching Post, ornamental and lasts a lifetime.

Automatically takes up slack of chain.

Freedom and comfort for animal. Safety and security for owner.

Ready Sellers.

Write for prices and secure exclusive agency for your city.

Howard Iron Works,

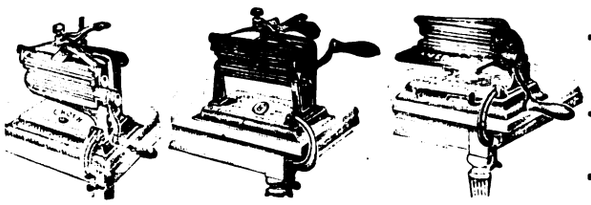
BUFFALO, N. Y.

Manufacturers of

Bench Vises.

Price Lists sent on application.

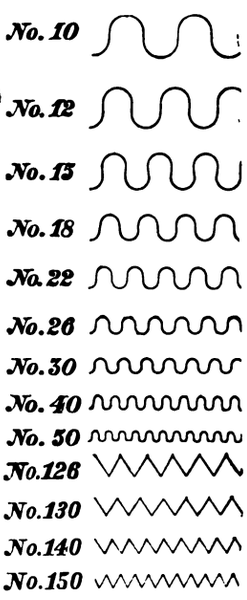
Fluting, Crimping or Goffering Machines



"CROWN" 4½, 6, 8 in. "KNOX" 4½, 6, 8 in. "AMERICAN" 5, 6, 7 in.

FURNISHED WITH ANY STYLE ROLL SHOWN IN DIAGRAM.

CATALOGUE SENT FREE.



NORTH BROS. MFG. CO.,

PHILADELPHIA, PA.

Manufacturers

LIGHTNING, GEM and BLIZZARD ICE CREAM FREEZERS.

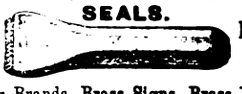
Perfection Meat Cutters,

U. S. Dial Scales, Etc. Etc.

New York Agents, John H. Graham & Co. 113 Chambers Street.



STEEL STAMPS AND DIES,
STENCILS, NOTARY, LODGE AND CORPORATION SEALS.
CHECKS, BADGES, MACHINERY PLATES.



Burning Brands, Brass Signs, Brass Labels, Models and Moulds for Casting WHITE METAL.

SCHWERDTLE & SIEBERT,
35 Fairfield Ave., BRIDGEPORT, CONN.

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THE BEST IN THE CITY.

Deposit your Securities and Valuable Papers and Silverware in the new vaults of

National Safe Deposit Co.

OF NEW YORK.

THE MUTUAL LIFE BUILDING,
32 Liberty Street, New York.

Safes $5.00 per Annum and Upwards.

OFFICERS.

JAMES C. HOLDEN, PRESIDENT. JOHN A. FONDA, VICE-PRESIDENT.
J. LYNCH PENDERGAST, SECRETARY AND MANAGER.

DIRECTORS.

JOHN W. AUCHINCLOSS, - OF AUCHINCLOSS BROS.
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JOHN A. FONDA, ASSISTANT TREASURER THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
JAMES C. HOLDEN, - PRESIDENT OF THE COMPANY.
ISAAC F. LLOYD, SECOND VICE-PRESIDENT THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
THEODORE W. MORRIS, OF THEODORE W. MORRIS & CO
B. AYMAR SANDS, - - - OF BOWERS & SANDS.

The Mutual Life Insurance Company

OF NEW YORK.

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

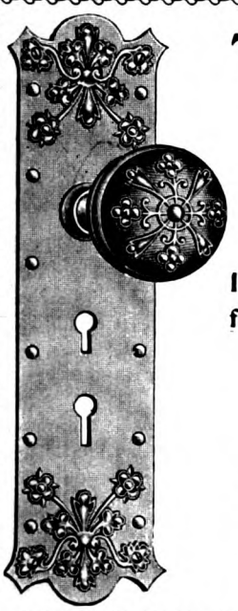
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

ROBERT A. GRANNISS, Vice-President.

WALTER R. GILLETTE, - General Manager,
ISAAC F. LLOYD, - - - 2d Vice President,
FREDERIC CROMWELL, - - - Treasurer,
EMORY McCLINTOCK, - - - - Actuary,
WILLIAM J. EASTON, - - - - Secretary.



Trilby Design

(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,
Inside, and Sliding Door
Sets Complete.
Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of **Builders' Hardware,**

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

NEW YORK, 80 Chambers St., or 94 Chambers St., (UNDERHILL, CLINCH & CO.)
BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
CHICAGO, 36 Dearborn St.
BALTIMORE, 32 Hopkins Place. (HENRY KEIDEL & CO.)
PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

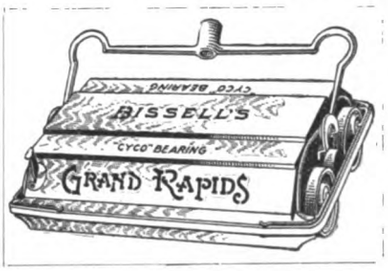
NOTE

Important Reduction in prices of

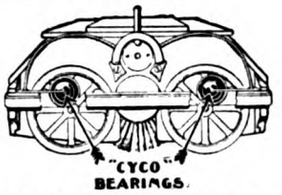
BISSELL'S

"Cyco" Bearing

Carpet Sweepers.







Japanned $2.50 FIXED RETAIL PRICE Nickeled $3 00

. . . Write for particulars to . . .

Bissell Carpet Sweeper Co.,

GRAND RAPIDS, MICH. 103 Chambers St., NEW YORK.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Baltimore, Md.—Reeves & Chavannes, Hardware, have opened new store at No. 625 W. Baltimore Street.

Danville, Pa.—Hodnett & Vass have incorporated for the purpose of conducting a general Hardware, stove and tin business at the old stand of Schoolfield, Vass & Co.

Mauteno, Ill.—Mr. Farley has purchased a Hardware store in this city, and will take possession soon.

Mechanicsburg, Ind.—E. S. Brown will open soon.

Topeka, Kan.—W. S. Chaney and E. F. Morton will open soon.

Changes and Removals.

Almonte, Ont.—Gilbert A. Moir, Hardware merchant, has purchased from George Paterson the Lochead property on Mill Street—the store at present occupied by John O'Reilly—at $4000, and will move his stock thither between now and the end of this year.

Arcadia, Fla.—Alex. Miller, of Hull, has purchased the Hardware business of Thomas Gaskins, and will carry on the business in the Gaskins building.

Atlanta, Ga.—W. M. Spratlin, carriage Hardware dealer, has moved into his new warehouse, Nos. 92 and 94 South Forsyth Street.

Avalon, Mo.—Craig & Shields, Hardware, have discontinued partnership. Joseph Shields continues the business.

Austin, Tex.—G. C. Bengener & Bro., Hardware dealers, are having their present store remodeled. In the meantime they will occupy the store at No. 817 Congress Avenue.

Augusta, Ga.—D. L. Fullerton, stoves, etc., reported selling out.

Bassett, Iowa.—George H. Potter, Hardware, reported to have been succeeded by E. M. Potter.

Belfast, Me.—J. H. & J. W. Jones, Hardware, reported to have been succeeded by J. W. Jones.

Bellefontaine, Ohio.—Cook & Easton; T. J. Cook has sold his interest to his brother, C. C. Cook, of Huntsville, who takes immediate possession; the firm name will remain unchanged.

Cainesville, Mo.—J. M. Rogers, Hardware, etc., reported sold out.

Chester, Iowa. — Bratrud & Marshall, Hardware and agricultural implements, reported to have been succeeded by Marshall & Murray.

Chrisman, Ill.—A. P. Harris will sell his store and will soon purchase the Hardware and stove business of A. A. Hannah, of Paris.

Cooperstown, Wis. — Gotfredson Bros., Hardware, agricultural implements, etc., sold to F. W. Kriwanck.

Copemish, Mich.—U. J. Ackley has sold the balance of his Hardware stock to the Crawford brothers.

Danville, Va.—J. E. Schoolfield, Hardware, has retired from business.

Deadwood, S. D.—Star & Bullock Hardware Co. reported selling out.

Douglas, Neb.—T. W. Short, Hardware, reported to have been succeeded by W. Whalen.

Edgewood, Iowa.—C. S. Maxson, reported to have been succeeded by George Glazier.

Fordyce, Ark.—Fordyce Hardware Co. sold out.

Genesee, Idaho.—Bressler & Scroggins, Hardware, reported to have been succeeded by Driscoll & Thompson.

Goldthwaite, Tex.—Joe S. Clark, Hardware merchant, of San Saba, will establish a branch house in this city.

Guntersville, Ala.—Andrew J. Baker will erect a new and larger store on the lot he is now occupying.

Henderson, Iowa.—Martindale & West, Hardware and furniture, reported to have been succeeded by William Orr.

Hildreth, Neb.—R. A. Glenn, Hardware, reported to have been succeeded by James Troxell.

Holgate, Ohio.—G. F. Rothenburger has purchased the Fast Hardware store.

Kankakee, Ill.—O. N. Morris has sold his interest in Morris Bros. to Will. Frith.

Kirkwood, Ill.—C. W. Kessler has sold his interest in the Hardware store to P. W. Kessler, who will continue the business.

Lebanon, Neb.—J. Cress & Son have been succeeded by H. E. Waugh.

Lebanon, Tenn.—J. L. Jennings & Co., Hardware; the firm is now Lebanon Hardware & Furniture Co.

Lexington, Va. — White, Owen & Co., dealers in Hardware, have been succeeded by Robert L. Owen.

Los Angeles, Cal.—Scott Hardware Co., and C. A. Judd, furniture, have consolidated as Scott & Judd.

Louisville, Neb.—J. O. McClain, Hardware, reported to have been succeeded by J. R. Cox.

Lynchburg, Va.—Schoolfield, Vass & Co.; James E. Schoolfield has sold his interest to W. P. Hodnett; the style of the firm has not yet been decided upon.

McMinnville, Tenn. — Biles & Smith, Hardware dealers, are improving their store.

Minneapolis, Minn.—The firms of Gardner & Davis, No. 304-306 Hennepin Avenue, and F. R. Warner, No. 109 Nicollet Avenue, have consolidated, and incorporated under the name of the "Gardner-Warner Hardware Co.," and will continue the business at Nos. 304 and 306 Hennepin Avenue.

Mt. Sterling, Iowa.—F. D. Carr & Co., Hardware, reported to have been succeeded by W. I. Luse.

Nashville, Tenn.—Donigan & Weakley, Hardware, will remove their stock from Church and Cherry Streets to the Public Square.

Olympia, Wash.—L. M. Hall, Hardware, reported to have given bill of sale for $2000.

Packwood, Iowa.—H. S. Mitchell, Hardware and agricultural implements, reported to have been succeeded by Baker & Co.

Prescott, Ark.—Ira Gee, Hardware, reported to be closing out business.

Punxsutawney, Pa.— Newell & Hewitt, Hardware, firm is now Hewitt & Johnson.

Rahway, N. J.—Abram A. Whitenack, of Somerville, has purchased a Hardware store here and as he has had much experience in that line of business will undoubtedly make a success of it.

Ravenna, Ohio.—The Frazer Hardware store has gone out of existence.

Springfield, S. D. — P. M. Magnuson, Hardware, reported sold to L. Michel.

Vilonia, Ark — Simpson & Son, Hardware, the firm is now J. N. Simpson.

Walkerton, Ind.—T. J. Reece will move his Hardware store from this place to North Liberty.

Waldron, Ark.—W. P. Forrester, Hardware, reported to have been succeeded by Waldron Hardware Co.

Walnut Kan.—William Broughton, Hardware, reported to have been succeeded by Miller & Son.

Willis, Kan.—A. B. Clark, Hardware, reported sold out.

Wilmington, Del.—Thomas Pierce will remove to the Windsor block.

Business Embarrassments.

Elkhart, Ind.—The Jones Hardware Co. has made an assignment to D. M. Best.

Terre Haute, Ind.—Finkbiner & Duenweg, wholesale and retail Hardware, have made an assignment. The assets are $36,000, and the liabilities $25,000.

Recent Fires.

Alvin, Tex.—J. M. Harrison, Hardware, furniture, etc., estimated loss by fire, $18,000; insurance about $8000.

Augusta, Ga.—Day & Tannahill; damage, $10,000. Fully insured.

Berlin, Mich.—Joseph Raymond; damage $1600, insurance, $800.

Birmingham, Ala.—May & Thomas Hardware Co.; blind and sash repository on Morris Avenue completely destroyed by fire at a loss of $4000; covered by insurance.

Carnegie, Pa.—M. B. Brown; damage, $2000; covered by insurance.

Halifax, N. S.—A. M. Bell, Hardware, stock damaged by fire, at a loss of $40,000; well insured.

Hillsboro, Ill.—H. E. Rukgaber; Hardware store has been destroyed by fire.

Hubbard, Iowa.—White & Van Patter, Hardware, damaged by fire, at a loss of $250. Not insured.

Memphis, Tenn.—S. D. Schwarzenburg, damage $1500; fully covered by insurance.

Mt. Sterling, Ky.—T. S. Barr, Hardware, loss by fire, $10,000; insurance, $6000.

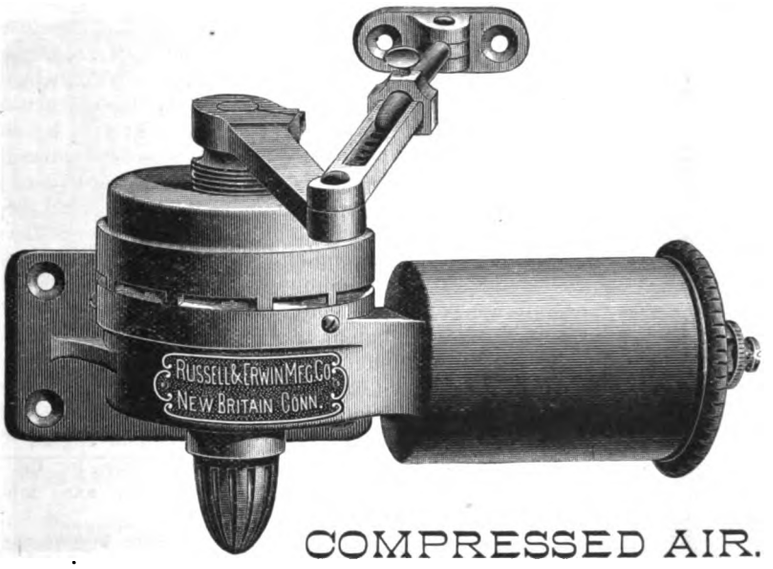
Ramsey, Ill. — Chauncey O. Ruckert Hardware, furniture, etc., reported burnt out.

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GUARANTEED TO DO ITS WORK PERFECTLY

COLUMBIA PNEUMATIC DOOR CHECK AND SPRING.

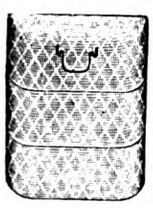


Simple in Construction.
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Powerful in Action.
Neat in Appearance.

COMPRESSED AIR. NO LEAKAGE.

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NEW BRITAIN, CONN. NEW YORK. PHILADELPHIA. CHICAGO. BALTIMORE. LONDON.



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The Largest Manufacturers of Lined
SPARK GUARDS
In the United States...
Dow Wire Works Co.,
Louisville, Ky.

ON OUR AD. LIST AS ONE OF THE BEST.

Troy Nickel Works, Troy, N. Y. [Alaska Stove Hardware]: HARDWARE is on our advertising list as one of the best. We will be glad to keep you in this position.

ESTABLISHED 1845
DUNBAR BROTHERS
MANUFACTURERS OF
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS
MADE FROM
SHEET STEEL & STEEL & BRASS WIRE.
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PATENT SOLICITORS, 31 Nassau St., N. Y.

have done all my patent soliciting work, both for this and foreign countries continuously for the past fourteen years.
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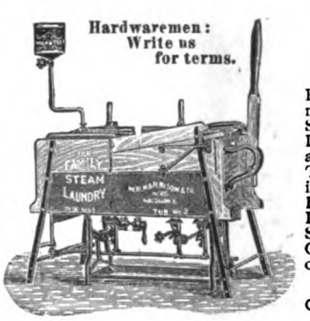
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SEND FOR CATALOGUE AND PRICES.

"The Family Steam Laundry."

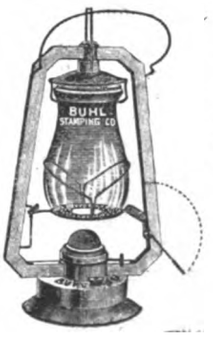


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For family use. Washer, Boiler, Adjustable Stove, Attachment for Wringer, etc. ALL IN ONE. It will Wash, Boil, Steam, Rinse, Blue, Heat Irons, make Starch and Cook your Dinner all on the one machine, in the most Perfect manner, and Quickest Time and Least Labor, without any Wear or Tear, without Lifting Wringer, Slopping the Floor or Breaking your Back over a Washboard and Tub. Get one and be Free Forever from Washtubs, Washboards, Washboilers, Laundry Stove, Rubbing your Clothes, Sore Knuckles and Scalded Hands. Strong, Durable, Handsome and Easily Operated. Heated by natural gas, artificial gas, gasoline or oil.

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The Latest Improvements in Tubular Lanterns
ARE THE

No. 16, Buhl New Side Lever, - List, $7.50 per doz.
No. 100 Buhl Headlight - - $30.00 per doz.

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BURN BEST
DETROIT MICH.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Chicago, Ill.—Falcon Iron & Nail Co. has been incorporated; capital stock, $2500; incorporators, Edward C. Brainard, William E. Stockton and Harry Bennett.

Memphis, Tenn.—The Globe Stove & Tin Co. has been incorporated for the purpose of carrying on the trade of merchants. Capital stock, $5000, and the incorporators are W. R. Cross, Ike Ochs, J. H. Schwarzenberg, James Richert and Sam Behr.

Portland, Ore.—The Loewenberg & Going Co. has been incorporated to conduct a Hardware and manufacturing business. Capital $25.000. Incorporators, J. Loewenberg, J. W. Going and A. C. Going.

Warren, Ohio.—The new Union Tube & Iron Co. has organized as follows: President, Warner Arms, of Youngstown; vice-president, D. P. Wheeler, of Akron, secretary, F. M. Peet, of Warren.

Improved Conditions.

Anderson, Ind. — The American Wire Nail Works, employing 700 men; the Lippincott lamp chimney plant, which works 400.and the Macbeth Lamp Chimney Works, with a like number of men on its pay rolls, have resumed in full blast, after a shut down of two months and a half.

Bloomington, Ill. — The Bloomington Stove Works are working full time with a full force of men. Since the first of July the factory has been a busy place and there is now no sign of a let up. Ten hours a day are put in. The American Foundry Co. is also working its men ten hours a day and the works are filled with a complete complement of men. Every other industry in the city employing machinists and mechanics is running full time, and some of them are turning away orders which must be gotten out immediately, because of the press of other work ahead.

Bremen, Ind. — The Holland Radiator Works are now running night and day to keep pace with the rush of orders. New machinery and more employes have been added.

Bridgeton, N. J.—It is reported that the Cumberland Nail & Iron Co., of this city, has leased their nail mills to a party of capitalists, for the purpose of operating a tack factory here.

Bridgeport, Conn.—The Union Metallic Cartridge Co. is enjoying the usual fall rush of business, and the packing and shipping departments are being run 13 hours a day, four days a week and 10 hours a day the other two days. The entire factory is being worked, and there are no idle machines for operatives.

Buffalo, N. Y.—The Burgess Arms Co. has been incorporated with the following directors: Frank B. Rumsey, Andrew Burgess, E. H. Rounds, D. C. LeFevre and O. L Snyder, of Buffalo, for the purpose of manufacturing firearms, machines and Hardware. Capital stock, $100,000.

Columbus, Ohio. — Some eight hundred men will go to work in Salem and Findlay as the result of the settlement here recently of the strike of the employes of the Salem Wire Nail Co.

Derby, Conn.—The Griggs-Seabury Gun & Ammunition Co., into which the Brady Mfg. Co., of this city, has been merged, will establish a large plant at the shops of the former Brady Co. Between 300 and 400 hands will be employed.

Elwood, Ind.—The Alexandria Wire Nail mill has been sold by S. G. Phillips to S. Free, who will put it in operation at once.

Indianapolis, Ind.—The machinery, etc., of the Economist Plow Co., of South Bend, have been sold to the Syracuse (N. Y.) Chilled Plow Co., and will be removed to that city at once. The building will be remodeled by the Singer Sewing Machine Mfg. Co. for foundry purposes.

Joliet, Ill.—The Enterprise Wire Mill, at Joliet, which has been idle for five years, and which was purchased two years ago by the Consolidated Steel & Wire Co., resumed operations this week, giving employment to 3700 men.

Mansfield, Mass.—The Shields Foundry Co. has been incorporated for the purpose of manufacturing stoves, etc. Capital stock, $6000.

Mason City, Ind.—The entire stock of the Hathorn Foundry & Machine Co. has been purchased by Mr. Hathorn, his former holdings being one third. The business was established by Mr. Hathorn nine years ago, and since then different parties have held varying interests, all of which are now consolidated in the original founder of the company.

New Philadelphia, Ohio. — The Akron Rubber Works Co. commenced the breaking of ground at this city this morning preparatory to the erection of their plant. The works will be in operation by January 15, and will manufacture vehicle tires and druggists' rubber supplies. Two hundred hands will be employed.

Philadelphia, Pa.—Six mills at the New Philadelphia Iron & Steel Co.'s works will be put in operation. This plant gives employment to 300 men, and is one of the best equipped rolling mills in the State.

Philadelphia, Pa.—The New Philadelphia Wire & Nail Mill that has been idle for the past two years will resume operations. A force of men are now at work cleaning up, adjusting the machinery, etc., preparatory to starting the mill. The mill was formerly one of the New Philadelphia's most prominent industries, giving employment to 150 men and boys, with a pay roll of $7000 per month. The plant is now owned by the Salem Wire & Nail Co., and will be operated by them.

North Tonawanda, N. Y.—The nut and bolt works in this city will resume operations at once with a large force of men. The big plant is already in shape for business and men have been set to work to clean things. A much larger force of men will at once be put at work and all of the old hands gradually taken back. Mr. Plumb, the president of the Buffalo Bolt Co., which now owns the plant, said that the old men would not all be taken back at once because it would be some time before the works would be running at full capacity, but that eventually they would all be returned to their positions. The Nut & Bolt Works, it will be remembered, is the largest bolt factory in the world. On August 10th it was sold at public auction to John Albright of Buffalo, by the receiver for the Plumb, Burdict & Barnard Co., Homer E. Dudley.

Radford, Va.—The Radford Industrial Works has been incorporated by Captain E. F. Gill, Capt. William Ingles, Capt. John G. Osborne and others, for the purpose of making wagons, axe handles, spokes, etc.

South Norwalk, Conn.—The factory of the Norwalk Lock Co., which has been running only eight hours a day and five days a week, has started on full time, ten hours a day and six days a week. A large rush of orders is assigned as the cause.

Trenton, N. J.—The Skillman Hardware Mfg. Co. have not only been busy even in the now fast-receding dull times, but have even been compelled to enlarge their plant by the erection of a new two-and-a-half-story brick wing on the west side of their main building. Its dimensions are 25x75 feet, with a one story extension in the rear, 21x30 feet. The new building is to be used as a japanning kiln and work room.

St. Louis, Mo.—Kieckhefer Bros will enlarge their manufacturing facilities by adding two stories to the main building of their tinware factory on St. Paul Avenue. The main building has a frontage of 300 feet, and that of the entire factory is 600 feet. The improvement will cost about $50,000. The additional space will enable the firm to increase its working force from 950 to 1500. These improvements are to be completed before Christmas. The factory is already the largest of its kind in the world.

Recent Fires.

Fort Madison, Iowa.—In the building of the Ideal Farm Implement Co., fire recently destroyed ninety corn cutters and shockers, all complete and ready to set up, and seventy-five Kaffir corn cutters, all complete, all of which were sold. This finished product had a value of from $12,000 to $14,000, and would have been shipped out, most of it to Kansas points, within a year.

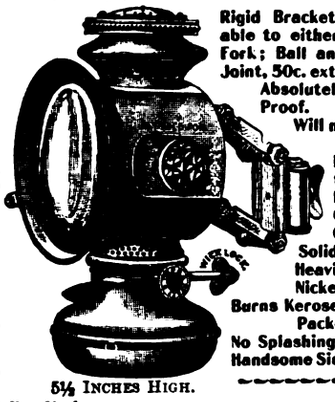
Stockton, Cal.—One of the most valuable manufacturing plants in Stockton was destroyed by fire recently when the Stockton Combined Harvester Works were burned. The loss is $100,000, on which there was an insurance of $60,000. The foundry and pattern shop were saved. It is estimated that the insurance will pay 60 per cent. of the loss of the company.

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THE BANNER

Is the Cycle Lamp for '97.

None as handsome, as practical, nor as thoroughly and honestly made. Throws a powerful, broad light, having **a 3-inch optical ground double coavex lens.** No lamp so easily cleaned. Has removable top burner and reflector, removable and **reversible oil pot.** The only lamp made with a positive wick-locking device—it acts on the ratchet. Your dealer should have them; until he has will send, carriage paid, for **$3.00,** to any part of the United States.

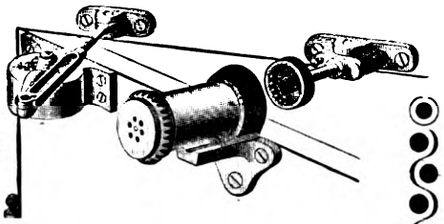


Rigid Bracket, adjustable to either Post or Fork; Ball and Socket Joint, 50c. extra.
Absolutely Wind Proof.
Will not Jolt Out.
No Solder to Melt.
Fills on Outside Oil Fount.
Solid Brass, Heavily Nickeled.
Burns Kerosene in Packed Fount.
No Splashing.
Handsome Side Lights.

5½ INCHES HIGH.

New York. Boston. Chicago. **PLUME & ATWOOD MFG. CO.**
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More sales, more profit



and the satisfaction which goes with a good season will be yours if you handle the Eclipse Door Check and Spring during the winter. The Eclipse is a door-closing, slam-preventing device that stands the test of time. It is easy to apply, easy to keep in order, profitable to the dealer. We have a booklet which gives full particulars and the reduced prices for this season, which we will mail to any dealer.

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STEEL OILERS

Lamps, Engineers' Sets, &c.

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The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

Hot & Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

RAZOR HONES

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MASON & PARKER. **J. B. TATEM & SON.**
THE BARNES TOOL CO. **E. LOUD MFG. CO.**

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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FERTILIZER CHEMICALS and MATERIALS;

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BONE BLACK

For Tempering, Coloring and Filtering Purposes.



THESE may seem hot subjects for this season, but it is the time to talk about them.

Kitchen Sets,

FIRE IRON STANDS,

Fire Pokers,

STOVE LID LIFTERS

We have a large line and our prices are low. . . .

Logan & Strobridge Iron Co.,

NEW BRIGHTON, PA.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Albany, N. Y.—The Chainless Cycle Co., of Rochester, has been incorporated by Thomas Searle, Ella R. Searle, George Wagner, Jr., of Rochester, and others. Capital stock, $30,000.

Buffalo, N. Y.—Buffalo Cycle Mfg. Co. has been incorporated. Capital stock, $125,000. Directors, Fisher C. Atherton, Charles H. Funnell, Charles W. Roe, Willis Brown and William Rooke, of Buffalo.

Buffalo, N. Y.—Buffalo Cycle Works has been incorporated. Capital stock, $25,000. Directors, Edward J. Rogers, Charles B. Walters and Henry C. Springer, of Buffalo.

Buffalo, N. Y.—The Cycle Skate & Novelty Co. has been incorporated by A. D. S. Bell, of Boston; George W. Crofoot and Benjamin L. Love, of Buffalo, and others. Capital stock, $10,000.

Camden, N. J.—The National Cycle Armor Co. has been incorporated. The objects of the corporation are the manufacture and sale of bicycles, tricycles, velocipedes and carriages of all kinds. The capital stock of the company is $500,000. The amount paid in is said to be $1000. The corporators are Robert B. Esler and Robert B. Esler, Jr., of Philadelphia, and Jehu Wood, of Haddonfield.

Chicago, Ill.—Auxiliary Tire Co. has been incorporated; capital stock, $50,000; incorporators, Zebulon Foster, Sarah A. Foster, Stanton Foster and Mary A. Crays.

Chicago, Ill. — Manufacturers & Merchants Warehouse Co. has been incorporated to manufacture bicycle sundries; incorporators: Joseph H. Defrees, William Brice, and John G. Campbell. Capital stock, $100,000.

Cincinnati, Ohio. — The Advance Carriage Co. will engage in the manufacture of bicycles.

New York, N. Y.—The Lenox Mfg. Co. has been incorporated to manufacture bicycles and bicycle sundries. Capital stock, $50,000. Directors, Jacob Levy, Annie Levy and Nathan Levy, of New York city.

New York, N. Y.—The Lincoln Mfg. Co. has been incorporated by Alfred C. Jopling, James H. Marsh and Julius Henry Cohen, of New York city, and others, for the purpose of manufacturing bicycle equipments. Capital stock, $30,000.

New York, N. Y.—The Mesinger Mfg. Co. has been incorporated with the following directors: Frederick Mesinger, Henry Mesinger and Alexander J. Limburg, of New York city, to manufacture bicycles and bicycle sundries, Capital stock, $10,000.

Portland, Me.—The Middlesex Bicycle Co. has been incorporated with the following officers: President, Josiah Thompson, of Minneapolis, Minn.; treasurer, James Leach, of Boston, Mass.; for the purpose of buying, selling and dealing in bicycles. Capital stock, $100,000, of which $400 is paid in.

Richmond, Va.—The Virginia & North Carolina Wheel Co., at a meeting of directors, elected the following officers: W. J. Westwood, president; Thomas Potts, vice-president; E. C. Brown, secretary and treasurer; board of directors—W. J. Westwood, J. J. Montague, Howard Swineford, W. A. MacMahon, John Crow, James McGraw, Thomas Potts and N. V. Randolph.

Tampa, Fla.—Neff & Graham have established a branch house in this city, of their bicycle business.

Toledo, Ohio.— Ray T. Samberg will shortly begin the manufacture of the Blue Grass bicycle, in connection with doing a general jobbing business in cements and sundries.

Changes and Improvements.

Chicago, Ill. — Western Cycle Fittings Co. reported to have been succeeded by G. F. Fraley.

Detroit, Mich. — Grinnell Bros., pianos and bicycles, Nos. 219, 221 and 223 Woodward Avenue, closing out bicycle business.

Hartford, Conn.— Alexander & Elmer, No. 440 Asylum Street, bicycles, will remove their business to No. 7 Haynes Street.

Louisville, Ky.—Brewer & Gross, bicycles, reported to have been succeeded by William F. Brewer.

Norwich, Conn.—James McKee & Co., manufacturers of bicycle chains, reported to have been succeeded by the McKee Chain & Stamping Co.

Norwich, Conn.—The Crescent Fire Arms Co., manufacturers, E. R. Thompson, treasurer, deceased.

Quitman, Ga.—Jelks & Co., bicycles, reported to have sold out to Fred. J. Davis.

Rockford, Ill.—The Harvard Bicycle & Hardware Sundries Manufacturers will remove their plant to Rockford in the near future.

Springfield, Mass.—The Warwick Cycle Mfg. Co. will add to their list for '98 a chainless wheel.

Thompsonville, Mass.—The Lozier Bicycle Co. will increase the force of the plant. They will build 50,000 wheels of the new 1898 pattern.

Toledo, Ohio.—W. N. Boyle has disposed of his Oak Cycle plant to the Co-operative Cycle Co., which will hereafter make the Silver Star wheel. The new owners are W. L. Dildine, B. C. Gray and Henry Conselyea.

Torrington, Conn.—The great demand for bicycles has caused the Torrington Chain Co., manufacturers of bicycle chains to enlarge its plant, and it has taken the whole of the old Hotchkiss Bros. & Co.'s building, fitted it up with new machines, a new twenty-horse power engine and made other improvements. This company, whose officers and directors are from the Hendy Machine Co., was incorporated in April, 1896, at first conducting business in a small way, but steadily growing. Only high grade bicycle chains are made, and the members of the company say that with the increased facilities between 400 and 500 chains can be turned out per day.

Recent Embarrassments.

Chicago, Ill.—American Cycle Mfg. Co.; judgments by confession aggregating $30,102 were entered against them in favor of Continental National Bank and assignee Boyd, of the Haymarket Produce Bank. Reduction in the price of wheels is said to be the cause of the failure. Attachment issued against them, $5413, in favor of John H. Graham & Co., for merchandise.

Grand Rapids. Mich. — Francis Letellier's purchase of the Hamilton-Kenwood bicycle plant recently for $15,000 has been confirmed. The money for the purchase was put up by Mr. Letellier, who will endeavor to realize by selling the plant. J. Frederick Baars, cashier of the National City Bank, was trustee for the mortgage, and said recently that the plant was in operation. T. J. O'Brien was the receiver appointed by the Court, and conducted the sale.

Greensburg, Ind.—Edwin E. Doles, proprietor of the Greensburg Spoke & Rim Factory, made an assignment for the benefit of creditors. The assignment was due to the bank failure, and all the creditors wil be paid in full. Assets, $20,000, and the liabilities are $12,000.

Haverhill, Mass.—Wm. E. Burke, bicycles, reported to have made an assignment.

Kankakee, Ill.—The Kankakee Bicycle & Refrigerator Factory had been closed on judgment notes of the First National Bank of Kankakee. Other confessions of judgment increase the liabilities to $40,000. The estimated assets are $5000.

Louisville, Ky.—The Aquilla Bicycle Co., of this city, has made an assignment to W. M. McKown.

Milwaukee, Wis.—F. R. Smith has been appointed assignee for the Mystic Cycle Works.

Newark, N. J.—E. F. Beck & Son, harness manufacturers and makers of bicycle saddles, are in the hands of a receiver, Lawyer Oscar Keen having been appointed to take charge of their affairs. It is said the liabilities will reach $150,000, with nominal assets about the same. The firm was widely known on account of its extensive advertising.

New York, N. Y.—Weaver Cycle Material Co., of No. 956 Eighth Avenue. Judge Smith, of the Supreme Court, has appointed John W. Queen and Thos. F. Donnelly receivers, on the application of Joseph A. Weaver, Jr. The company was organized on February 17, 1897, with a capital stock of $100,000.

Recent Fires.

Woonsocket, R. I.—Edmund R. Darling, wholesale and retail sporting goods, damaged by fire.

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STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.





EAGLE

Bicycle Pump

MADE WELL!
SELLS WELL!
WEARS WELL!

Fills Tires Quicker
Than Any Other Pump.

Connecting nipples all accurately threaded, and will fit all the well-known tires.

Write for Trade Prices
Special Inducements to the Jobbing Trade.

Henry Haas & Son,
551-553 West 35th St., NEW YORK.



COATES CLIPPER MFG. CO.,

Worcester, Mass., U. S. A.

MAKERS OF

Hair Clippers

ALL KINDS UNDER THE
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Power Clippers, both hand & mechanical.
Anti-Friction Horse Clippers.
Barbers Adjustable,
The best made.

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The . . .
"Advance"
line
Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .
The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.

Headquarters
FOR
ELECTRIC and PORTABLE
Watchman's Clocks.



THE "ALERT."

E. O. HAUSBURG, 41 Maiden Lane, New York.

BENFIELD & MILNE MFG. CO.,

ENAMELERS ON COPPER AND STEEL.

New York Office, 92 Fulton St, MAKERS OF Factory, Newark, N. J.

White Enamel, Aluminum, Bronze Sheet Brass and Nickel, Card Board and Cart Letters and Figures.

PEOPLE'S TELEPHONE Co. PUBLIC STATION

Enameled Iron Signs for Wagons and Trucks, Railroads and Business Signs of Every Description, also Number Plates for Hotels, Steamboats, Houses Church Pews, Hospitals, Etc.

Street Name Plates a Specialty.

SEND FOR CATALOGUE. *SPECIAL PRICES TO THE HARDWARE TRADE.*



THE FULTON SIGN and PRICE MARKERS

Are the best, most complete and cheapest outfits for Business men to make their own Show and Price Cards, to print Shelf Labels, mark Boxes, Barrels, etc., etc. There is in fact no business where they cannot be used to advantage. Newspapers are using them for their Bulletin Boards, Ministers for Church Notices, Theatres for Announcements, Restaurants for Bills of Fare, etc. Their price in comparison to their usefulness amounts to almost nothing; it saves the cost of Sign Painters and Ticket Writers. A Boy can do all the lettering required in the largest Department Store. They last a lifetime and can be used for every language. We have

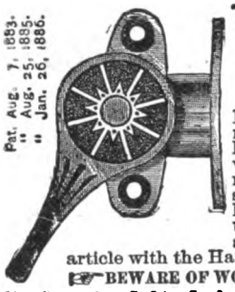
50 DIFFERENT STYLES

to select from in sizes from ½ to 4-inch letters. For marking Boxes and Barrels for shipping, or labels, they are far superior to adjustable stencils; the work is done quicker and neater and without blurring, making it look as if printed on a printing press. Nearly 100,000 sets of the **Fulton Sign Marker** have been sold, and they are in use daily by all large wholesale and retail business houses in the United States. Goods can be bought direct from us, or through your nearest wholesale house. Complete catalogues in English and Spanish sent free. Address

THE FULTON STAMP WORKS, 22 Beekman Street, NEW YORK.

H a

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THE CHAMPION SIDE SASH LOCK

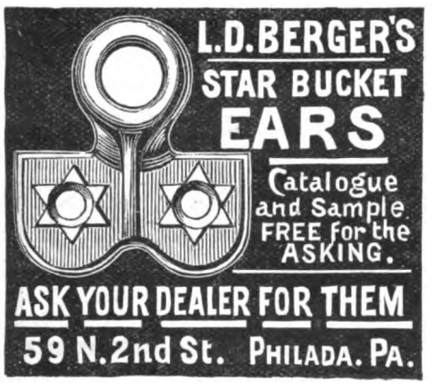
Has by its unequaled merits gained the public favor. It is a safe ventilator and prevents rattling. Is neat, cheap, simple and durable. It has been in extensive use for over eight years, and has become a staple article with the Hardware trade.

☞BEWARE OF WORTHLESS IMITATIONS

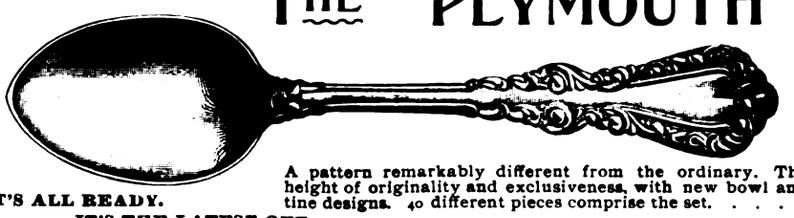
The Champion Safety Lock Co., Cleveland, O

WATERBURY BRASS CO.,
60 Centre St., New York.
. . Manufacturers of . .
Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS
OF ALL KINDS.
Hicks Primers, Berden Primers, Powder Flasks and Shot Pouches.
TAPE MEASURES,
EYELETS AND SMALL BRASS WARES
OF EVERY DESCRIPTION.



THE "PLYMOUTH"



IT'S ALL READY.
IT'S THE LATEST OUT.
IT'S MADE ONLY IN THE

A pattern remarkably different from the ordinary. The height of originality and exclusiveness, with new bowl and tine designs. 40 different pieces comprise the set. . . . . .

ROGERS' "ANCHOR" BRAND SILVER PLATED WARE

Factories:
HARTFORD, CONN.
NORWICH, CONN.
WALLINGFORD, CONN.
TAUNTON, MASS.

AND BY THE
WM. ROGERS MFG. CO.,
Office and Salesrooms: HARTFORD, CONN.

HOLMES & EDWARDS



Would like your business.

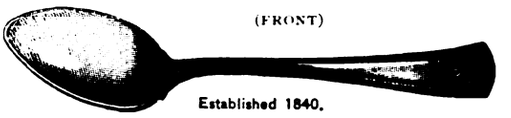




Their goods sell QUICK.
..THEY LAST FOR YEARS..
YOU Can Guarantee Them.

The Holmes & Edwards Silver Co., - Bridgeport, Conn.

Highest Grade of
Silver Plated Ware
In Spoons, Forks, Etc.
Manufactured by
L. BOARDMAN & SON, East Haddam, Conn.





Also Nickel Silver Flat Table Ware and Britannia Spoons
Write for Catalogue and Prices.

CORPORATE MARK,



JOSEPH RODGERS & SONS, Limited
—MANUFACTURERS OF—
Pocket and Table Cutlery, Scissors, Razors, Erasers, &c., &c.

These goods have fully maintained their reputation as the best cutlery in the world for over
ONE HUNDRED AND FIFTY YEARS.
Any infringements of our Name and Corporate Mark will be promptly prosecuted.
Sole Agents for the United States.
ALFRED FIELD & CO., 93 Chambers and 75 Reade Streets, New York.

Established 1836.
ALFRED FIELD & CO.,
93 Chambers and 75 Reade Streets, New York.
Importers of
HARDWARE, CUTLERY, GUNS, ANVILS, CHAINS, FILES.
Sole Agents for

JOSEPH RODGERS & SONS, LIMITED,	BEST CUTLERY IN THE WORLD.
PEUGEOT FRERES, / COATES CLIPPER MFG. CO.	HORSE AND TOILET CLIPPERS.
ELEY BROS., LIMITED,	CAPS, WADS, CARTRIDGE CASES, ETC.
L. HUGONIOT TISSOT,	FINE FRENCH PLYERS AND OTHER SMALL TOOLS.
ISAAC GREAVES,	SHEEP AND GARDEN SHEARS.
W. K. & C. PEACH,	GRASS HOOKS, SCYTHES AND STRAW KNIVES.
R. & J. LINACRE,	GRASS HOOKS, SICKLES, ETC.
WEBSTER & HORSFALL,	PIANO AND STEEL WIRE OF ALL DESCRIPTIONS.

Proprietors of the following brands of Cutlery:
ALFRED FIELD & CO., PARKER & FIELD, PROGRESS, CRITERION, BRANFORD CUTLERY CO., CONTINENTAL CUTLERY CO. WALTHAM CUTLERY CO., ALEXANDER FRAZER & CO., JONES & CO.

COULD NOT KEEP HOUSE WITHOUT IT.

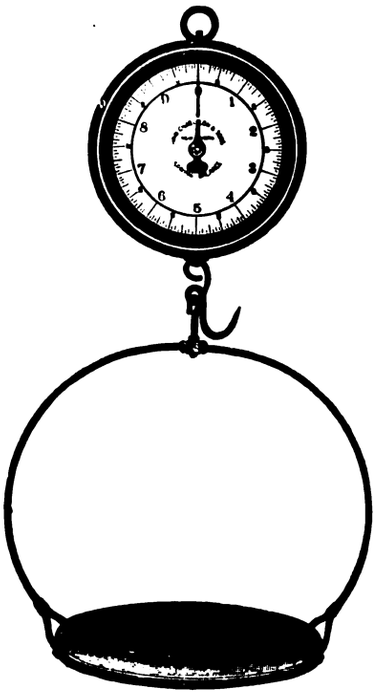
Sickels, Preston & Nutting Co., Davenport, Iowa. [*Wholesale Hardware*]: We would not know how to keep house without HARDWARE. The review of the Hardware markets, trade reports and editorials are frequently read before letters are opened that are received in the same mail with HARDWARE.

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CHATILLON SPRING SCALES.

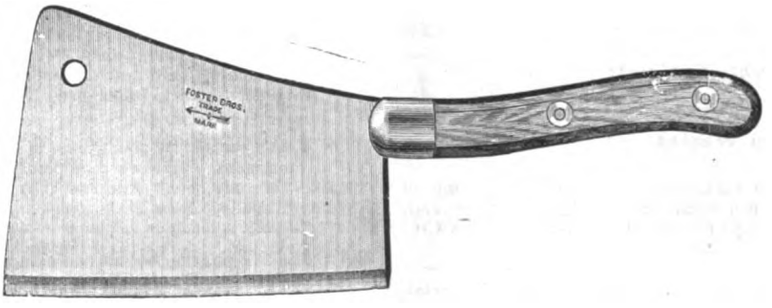
For more than **sixty years** we have carried on the business of making **Spring Scales,** and have made it OUR SPECIALTY.

All our Scales are warranted to weigh accurately and to be perfect in workmanship.



Our experience in the business, together with our unequaled facilities for manufacturing, enables us to produce a superior article, and thus to maintain the well-known reputation of **Chatillon's Spring Scales** as above that of other makes.

FOSTER BROS.' BUTCHER KNIVES, CLEAVERS, STEELS, &c.



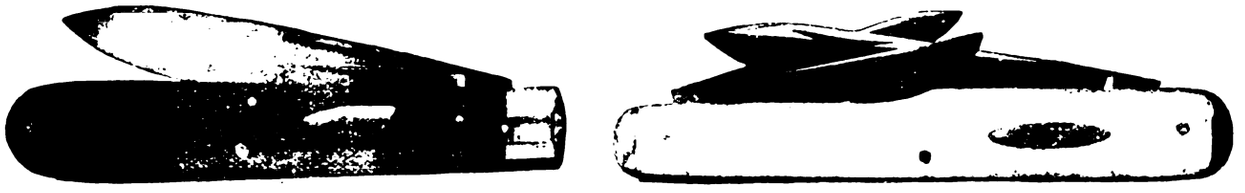
These Tools are recognized in the Markets, Packing Houses and Abbatoirs throughout the United States as the standard of excellence, quality being the first consideration. We carry in stock every style and size of Knives, Cleavers and Steels used in cutting meat; also knives for kitchen use in Hotels, Restaurants and for domestic purposes.

FRIEDERICH DICK'S MAGNET DIAMOND STEELS.



By careful workmanship and the use of a special steel in their manufacture THEY HAVE BECOME FAMOUS THROUGHOUT THE WORLD.

PHOENIX KNIFE CO.'S POCKET KNIVES.



Finest quality American Pocket Cutlery in large variety—Knives that are good sellers and will give satisfaction to the user

JOHN CHATILLON & SONS,

ESTABLISHED 1835.

85 to 93 Cliff St. and 12 Jacob St., - - NEW YORK CITY.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $8.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

Seed's Reversible Self-Cleaning ... WATER FILTERS
BRASS, NICKEL PLATED.
No. A1 Per dozen, $4 00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
21 and 23 Centre Street, - - NEW YORK.

PRIEST'S CLIPPERS


Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., U.S.A.


WOOD or METAL Workers
without steam power can save *time* and *money* by using our
Foot and Hand Power Machinery
Send for Catalogues—
A—Wood-working Machinery.
B—Lathes, etc.
SENECA FALLS MFG. COMPANY,
334 Water St., Seneca Falls, N.Y.

HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.

Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
GENEVA, OHIO.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads, &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application.

. . . HEARTILY RECOMMEND "HARDWARE."
E. T. Barnum, Detroit, Mich. [*Wire Goods*]: We heartily recommend HARDWARE to those desirous of reaching the largest number of dealers.

BEEN WITH YOU FROM THE BEGINNING.
Union Metallic Cartridge Co., New York. [Ammunition]: We have been with HARDWARE as advertisers from the beginning and expect to continue.

One of the Best Mediums Known.
C. T. Williamson Wire Novelty Co., Newark, N. J. [*Corkscrews*]: To present new goods to the trade we consider HARDWARE one of the best mediums known.

BEST INVESTMENT EVER MADE.
Divine Bros., Utica, N. Y. [Buffing Wheels]: Our advertisement in HARDWARE was the best investment we ever made in the advertising line.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

A FIRST class heavy sheet iron worker, who understands the laying off difficult patterns, and who can work well on high structures, and, if necessary, take charge of a gang of men. DOW WIRE WORKS CO., Louisville, Ky.

BOY wanted, about 15 years old; must have had experience in a retail Hardware store, be quick and bright; address by letter only, stating age, references, and salary to start. Address HARDWARE STORE, No. 2195½ Third Avenue, New York City.

WANTED—First-class traveling salesman to canvass manutacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York

POSITION by a young man. Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

$300 to invest with a position as manager or buyer. Age 27. Seven years experience with one of the oldest and best known wholesale Hardware firms on Chambers Street, New York. Make an offer if you are open for push and stick-to-business methods. Address 412, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by thoroughly experienced man either as clerk or salesman; first-class references. Address G. B W., No. 28 South Fifth Avenue, Mount Vernon, N. Y.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

ADVERTISING manager and writer of ability and experience, position as advertising manager of general or special line. Mail orders a specialty. Is willing to do other work in conjunction, if desired. Address WIMBROUGH, No. 638 Bourse Building, Philadelphia, Pa.

YOUNG man 30 years of age wants position in store or road. Nine years experience in Hardware, stoves and hot air furnaces. Can figure estimates from plans and specifications. Good bookkeeper. Fine penman. A No. 1 reference as to honesty, sobriety, etc. Address LOCK BOX 34, Jeannette, Pa.

POSITION wanted by a practical man, who has held positions as tool maker, foreman and assistant superintendent. Up on modern methods and able to get out work at lowest cost. Address FREMONT, care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 39 years, of long experience both wholesale and retail, able to act as salesman, stockkeeper, bookkeeper or manager, speaking and corresponding in English or German, desires a permanent position. Best references. Address CHARLES KREINBERG, No 108 East Houston Street, New York.

BY a practical mechanic, experienced in manufacturing patented and builders' Hardware and specialties, well up in modern shop methods. Competent to get out work cheap, etc. An expert workman at bench. and a hustler. Address EXPERT, No 3029 Poplar Avenue, Chicago, Ill.

THOROUGHLY experienced bookkeeper and office correspondent desires situation as accountant or cashier in a Hardware house. Highest references. Bond furnished if desired. Address COMPETENT, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a salesman well known among the Hardware, Housefurnishing goods and Department store trades; fifteen years' experience in New York and New England; best of references. Address H. N. P., care HARDWARE, No. 143 Chambers Street, New York City.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. BOX 1464, Boston.

EXPERIENCED Hardware salesman with large acquaintance in the South, desires position as traveling salesman to represent Hardware manufacturer or commission house. Is a native of the South and has about twenty years' experience on the road. Would be willing to take other territory than the South. Unexceptionable reference given. Address "HARD WORKER," care HARDWARE, No. 143 Chambers Street, New York.

POSITION by young man of ten years' experience in Hardware business. Have had experience both on road and in store. J. E., care HARDWARE, No. 143 Chambers Street, New York.

BICYCLE repairer and builder wants position with Hardware store handling wheels to make repairs and build to order new wheels during the season; other odd jobs in winter. GEO. GOULD, No. 114 Freeport Street, Dorchester, Mass.

AMERICAN, 30 years old, would like to hear at once from manufacturer desiring Boston manager or representative. Advertiser is competent to buy or sell goods, is a practical bookkeeper and correspondent and understands advertising. Seven years' business experience and as traveling salesman. Reference as to character, ability and temperate habits. Address H. G. C., P. O. Box 2981, Boston, Mass.

WANTED—Young man, business correspondent and office manager of fifteen years' practice would accept position with manufacturing company or jobbing house. Or would manage branch office or travel in the far West and Pacific Coast. Address BUSINESS, Drawer No. 79. Milledgeville, Penn.

Side Line Wanted.

SALESMAN visiting jobbing Hardware trade in Canada desires good line of goods on commission. Address N. M. 503, care HARDWARE, No. 143 Chambers Street, New York.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

Side Line Offered.

SALESMEN wanted calling on the Hardware trade to handle our line of high grade lubricating oils, greases and specialties as a side line. Liberal terms to reliable parties. Address THE A. F. VOAK OIL CO., Cleveland, Ohio.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

Side Line Offered.

WE want salesmen visiting Hardware and harness trade to sell our new line of chain goods and sheet steel snaps. Great sellers! State present line; references, territory. IRA F. WHITE & SON No. 76 Park Place, New York.

WE offer good side lines to those calling on Hardware, harness, carriage manufacturers and department stores, both wholesale and retail. Address FERNALD MFG. CO., North East, Pa.

A Business Wanted.

$200 to invest with Lathe and Tools for mechanical repair work in small Hardware store. Will buy business on easy terms. Age 26. Eight years in wholesale and retail Hardware in New York City Address 500, care HARDWARE, No. 143 Chambers Street, New York.

For Sale.

FOR SALE at a bargain, a Hardware stock and fixtures, established thirty years in a city of 100.000 inhabitants. A grand opportunity for any party who knows a good thing when he sees it. For particulars see or address WHITE & CONANT, Worcester. Mass.

FOR SALE or on royalty to Novelty Concerns, a combination rigid and flexible coaster. Nothing like it. Cheap to manufacture. Thousands of them wanted. Boy's delight. A Klondyke for the party that gets it. Write quick for cuts, etc., to B. F. HOOK. Holmesville, Ohio.

ESTABLISHED Hardware, stove, tin-shop. Largest in town. Good bargain. Particulars to parties interested. Address BROWN BROS., Montgomery, N. Y.

WHOLE or half interest in established General Hardware Store on leading avenue in Brooklyn. Will be sold on favorable terms. Address K care HARDWARE, No. 143 Chambers Street, New York.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address BOX 99, care HARDWARE, No. 143 Chambers Street, New York.

AN old reliable Hardware business in one of the most prosperous county seats in Ohio. Nice clean stock. This is a first-class opportunity for one or two persons to step into an established and profitable business. Address immediately, MEEKER BROS., No 85 North High Street, Columbus, Ohio.

ESTABLISHED Hardware business. Particulars to parties interested. Address PARTICULARS, care HARDWARE, No. 143 Chambers Street, New York.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10.000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



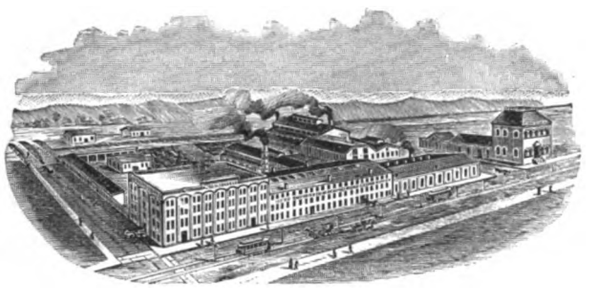
"ERIE" ALUMINUM

For Christmas "ERIE" ALUMINUM, The Finest Ware.

GRISWOLD MFG. CO., Erie, Pa.



COVERT MFG. CO.,
WEST TROY, N. Y.
Derby Snap,
With Plated, Rust Proof and Guarded Spring. . . .
"The latest and best."
For sale by Jobbers at Manfrs. prices.



WHERE BOOMERS ARE MADE.

EVERY ARTICLE

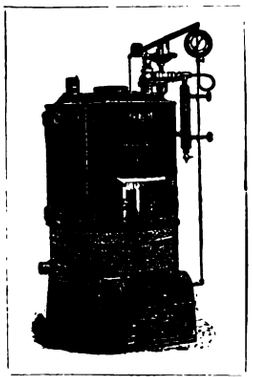
of our make bearing the name Boomer is guaranteed FIRST CLASS in every respect.

BOOMER FURNACES

SUCCESS BOOMER, BOOMER OAK,
BOOMER STEEL RANGE, BOOMER CANNON STOVE.

When wanting a Furnace or Stove why not buy one that has been thoroughly tried and tested.

HESS, SNYDER & CO., Mfrs.,
MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

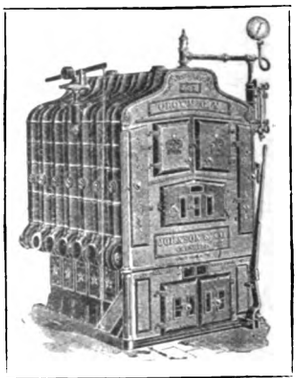
FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

. . . . MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y, and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.



PARKS STOVE POLISHING MITTEN.



Best Made.

Write for Prices.

PARKS & PARKS, TROY, N. Y.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters..... } 40&12½%
Ship Carpenters..... }
Railroad. ..... }

Ammunition—

CAPS, PERCUSSION—⅌ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&5&2%
Cent. Fire, Pistol and Rifle.25&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....20&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10& 5%
With Nitro Powd'r.40&10&10&10& 5%

GUN WADS—⅌ 1000—
B.E., 11 up.80c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&5%

SHOT—
Drop Shot, sizes smaller than B, 25-⅌ bags ⅌ bag.....$1.25
Drop Shot, sizes smaller than B, 5-⅌ bags, ⅌ bag.....$ .30
Drop Shot, B and larger sizes, 25-⅌ bags, ⅌ bag.....$1.50
Drop Shot, B and larger sizes, 5-⅌ bags, ⅌ bag.....$ .35
Buck and Chilled Shot, 25-⅌ bags, ⅌ bag.....$1.50
Buck and Chilled Shot, 5-⅌ bags, ⅌ bag.....$ .35
Dust Shot, 25-⅌ bags, ⅌ bag....$2.00
Dust Shot, 5-⅌ bags, ⅌ bag ....$ .50
Jobbers frequently deduct 5@10 cents ⅌ bag.

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25⅌ $4.00
12½⅌ 2.75
6¼⅌ 1.25
Orange, Special, kegs 25⅌ 5.00
12½⅌ 2.75
6¼⅌ 1.50
Orange Ducking, kegs ..6¼⅌ 2 25
(For 1000 ⅌ lots 10% discount.)
Blasting and Mining, A..25⅌ 2.25
Blasting and Mining, B. 25⅌ 1.50
Laflin & Rand W.-A. Smokeless:
Sing'e Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 ⅌ each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 ⅌ each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ ⅌ each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 ⅌ each.. 45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 ⅌ each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ ⅌ each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ ⅌ each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 ⅌.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ ⅌..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ ⅌..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 ⅌..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ ⅌..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ ⅌..... 1.25
"V. G. P." for Trap Shooting, in Kegs 25 ⅌..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ ⅌..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 ⅌..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ ⅌..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ ⅌..... 1.50
Mealed Powder, in Kegs, 25⅌. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 ⅌..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 ⅌..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 ⅌..... 1.50
Du Pont Sporting Powder, for lots 1000 ⅌ 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25⅌ Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ ⅌ Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼⅌ Black Powder..... 5.75
Canisters, equal in bulk to 1⅌ Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1⅌ best black.....$ .85
Canister, equal in bulk to 2 ⅌, best black..... 1.70
Drum, equal in bulk to 10 ⅌, best black..... 8.25
Drum, equal in bulk to 50 ⅌, best black..... 41.00
Drum, equal in bulk to 100 ⅌, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ⅌ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....⅌ doz. $3.50
Galien Safety.....⅌ doz. $3.75
Hartman's Pivot.....⅌ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....⅌ doz $3.25
Western.....⅌ doz. $3.75

Anti-Rattlers—

Fernald, Wire....⅌ doz. pairs $1.00
Burton's, No. 2....⅌ doz. pairs. .75
Burton's, with bolt holder, No. 1.....⅌ doz. pairs. .75

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ⅌ ⅌ 9c.....15@15&5%
Hay-Budden, Wrought.....8¾@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $15.00..20%

Augers and Bits—

Boring Machine .....70&10@75%
Cincinnati Tool Co.:
Bell hangers' bit.....40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug..... 25&10&10%
Cleveland Wood Bits for Brace. Style A, No. 114.....50&5%
Common.....70&10@75%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. 14 Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $14.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....30%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ⅌ doz. $60....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2, $45.....30%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ⅌ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, ⅌ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&5@60&10%
Morse Twist Drills.....60&5@60&10%
New Process.....60&5@60&10%
Standard.....60&5@60&10%
Syracuse.....60&5@60&10%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, ⅌ gr.....$3 00@$3.25
H'ld Scratch ⅌ gr.....$3.75@$4.00
Pat. Peg ⅌ gr.....33@35c
Sewing, Com.....⅌ gro., 85c@$1.00
Should. Peg ⅌ gr.....$1.35@$1.45
Shouldered Brad. ⅌ gr....$1.50@$1.65
Socket Scratch ⅌ doz....$1.00@$1.10
Stanley Rule & Level Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 ⅌ doz. $7.50; No. 30, ⅌ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $18.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6 00; 75, $9.00; 175 $10.00 ⅌ dozen net

Axes—

First quality, best brands.$5 00@5 25
First quality, other " $4.50@4.75
Beveled add 50c ⅌ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz , $9.00
Firemans'.....per doz., $35.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
⅌ doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24⅌. .....⅌ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....20%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....55%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....60&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable .....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....25&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..⅌ doz. $5. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ⅌ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, ⅌ doz. $15.00.....45%
Ives'⅌ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..⅌ doz. $3..33⅓@33⅓&10%
Excelsior..⅌ doz. $10.00....50&10&2%
N rth's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ⅌ gro. sets.....$5.50
Gorhans Improved Star Tenon ⅌ gro. $1.00.....25%
Merriman's Brass Lever ⅌ gr. $15.00
Merriman's Iron Lever ⅌ gr...$9.00
Millers Falls ⅌ set $1.00.....15&10%
Security Gravity ⅌ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ⅌ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lance:
Junior, Self Sustaining.....30%
Pat. Automatic.....35%
Perfect Safety.....20%
Stowell Novelty Block.....60&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75@75&10%
Wrought Square..70&10@70&10&10%
Wr't Shutter, Standard list.....70%
Wr't Shutter, Sargent's list.....70%
Wr't Sunk Flush, Sargent's list. 50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%
Window Spring.....75%
Window Spring Bolt Socket.....70%

CARRIAGE, MACHINE, &c.—

Bolt Ends.....80@80&5%
Machine.....75&10@80%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..80&10@80&15%
Phila., Eagle, list $3.00.....85%
R. B. & W., $2.40 list.....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96. 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 26, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '94.....80%

STOVE AND PLOW—

Plow.....60&10&10@70%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—

Sink.....75&10%
Sleigh Shoe.....65%

Bone Mills—

Enterprise.....20%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114¼.....60&10%
No. 208¼@214¼.....60%
Peck's (P. S. & W. Co.)....60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....35@35%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
L. & I. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....35%&5@35%&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.4.@40&10%

CAST IRON—

Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow.....
Fast Joint, Narrow.....
Fast Joint, Light Narrrow.....
Fast Joint, Broad..... } 75%
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..

Can Openers—

American.....₩ gross $1.75@$1.90
Champion, ₩ doz. $3.00.....50%
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $13.00.....25%
Dunlap's Sardine Scissors, ₩ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ₩ gr. $8.00; ₩ doz.75c
No. 5, Iron Handle, ₩ gr....$3.00@3.25
Sardine Scissors...₩ doz. $2.00@2.25
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2 50.....70%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz.75@$1.00
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....20%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal.... } Cyco-Bearing ..₩ doz. $24.00
Grand..... ..₩ doz. $36.00
Grand Rapids. ..₩ doz. $22.00
Hall..... ..₩ doz. $60.00
Prize..... ..₩ doz. $24.00
Premier..... ..₩ doz. $24.00
Superior..... ..₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $21.00
Furniture Protector, Japan.....₩ doz. $24.00
Furniture Protector, Nickel.....₩ doz. $27.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Housewife's Delight..₩ doz. $15.00
Parlor Queen, Jap....₩ doz. $24.00
Parlor Queen, Nickel, ₩ doz. $27.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $7 00
Little Queen.....₩ doz. $4.00
Miss.....₩ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0& 0%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phœnix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....60&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—

American.....60&10%
Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—

American Coil, Ass'n base prices.

3-16	¼	5-16	⅜	7-16	½	⅝	¾
$6.85	5.35	4.25	3.65	3.50	3.35	3.15	3.05

Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....6 &20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10@70%
German Halter Chain....60&10@7.%
Jack Chain, Iron.....70@70&5%
Jack Chain, Brass.....70@70&5%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10@60&10&10%

Cherry Stoners—

Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale..... }
Mix..... }
Ohio Tool Co..... } 75&10 &5%
P. S. & W..... }
Sag Harbor Tool Co..... }
Swan..... }
Winsted Edge Tool Co..... }
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—

Rox.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to £
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....20%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....25 to £
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $8.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati.....25&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co.. 40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....5%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....20%
Barton's.....30@30&10%
Beatty's.....33⅓%
L. & I. J. White.....30@30&5%
Sandusky Tool Co.....35&10@30&10%
Shaves, Cincinnati Tool Co.....30%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@40%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ₩ doz. $6.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....35@35&10%

Counter Sinks—

Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@40&5%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....20%
Dixon's
Eclipse.....₩ gro. $3.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.81
Solid.....₩ gro. 7.20

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...30&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&30&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list....$25.00

Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95..... 33⅓&10%
Torrey's Rod, 39 in, ₩ doz $1.25@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix..... }
New Haven..... } 75& 10& 5%
P. S. & W..... }
Witherby..... }
Watrous.....30@30&10%
L. & I. J. White.....30&5@35%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$15.00
Breast, Millers Falls, each $3.00
Breast, P. S. & W.....15&10%
Breast, P. S. & W.....40&10%

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Bi east, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓&
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....20@20&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....20&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓&
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓&
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop. less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..6⅔c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6⅔c. ea., less 50%
Gas Burners, Electric....5⅔c. ea., less 5%
Gravity Batteries, $1.00 ea.. less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6⅔c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb., less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt...24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $4.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 80c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF FF.
Kegs, ₩ lb.	4½c	5c	8c
½ kegs, ₩ lb.	4¾c	5¼c	8¼c
¼ kegs, ₩ lb.	5c	5½c	8½c
10 lb cans, 10 in case....	6c	6½c	8½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....35%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....35%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.....	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.....	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7⅛ inches, (anti-tip-over).....	5.50	6.50	7.00
Dairy Pails, 14 qt.....	3.30	3.80	4.30
Fire Pails, 14 qt., stenciled "fire.....	3.40		
Fruit Bowls.....	1.20	1.70	2.00
Keelers, 11⅛ inch.....	2.30	2.80	3.10
Milk Pans.....	1.50	2.00	2.20
Mats, 3¼ inch (for table use).....	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.....	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover).....	6.50		
Pitchers, 10⅛ in. high..	4.00	4.70	5.20
Peck Measures.....	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt....	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8⅛ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10⅛ in., (detachable covers).....	3.60	4.50	6.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4.00	4.50
Wash Basins (10⅛ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2.10
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls,.....	2.30	2.90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓&
Second Quality Files.....30@30&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:

A 1, $4.00	No. 2, $2.50	No. 3, $1.50	No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (80c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....30%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No.....	0	1	2	3	4
₩ doz..	$3.00	$3.75	$4.25	$4.75	$5.25
No.....	5	6	7	8	
₩ doz.....	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓&
Clapboard.....20%
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ₩ doz $3.00 net
Stubs' Wire and Drill.....30%
Wire, Morse's.....25%
Wire, P. S. & W., low list.....10&10%
Wire, Wheeler, Madden & Co.....10%

Gimlets—

"Bee," ₩ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₩ gr. $1.50
Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....60%
Spike Gimlets:
Assorted 1, 2 and 3.....₩ gr. $3.00
Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....40@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....20%
P. S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Woodine.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son, List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail.. 40&12½&
Engineers & B. S. Hand....40&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....40&10@50%
Sargent's New List.....45@50%
Verree.....50&10@50%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c
3 to 5 lb.....₩ lb 35c } 75@75&10%
Over 5 lb.....₩ lb 30c
Wilkinson's Smiths....9½c@10c₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....	$ .90	1.00	1.05	1.35	1.50

50&10@70%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....50&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔&
Japanned, with Nuts.....$1.62
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60&10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔&

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33⅓.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $2.75@3.00
Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....50&2%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $3.00.....50&10%
Best Anti-Friction.50&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00.....60&10&10%
Cronk's Steel cov'd Loose Axle. 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....60@60&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....60&5%
New Model.....40&10%
Parlor, Standard.....60&10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $14.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 66⅔&; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&1.00@60&10&10%
Stowell Barn Door:
Badger.....10&10%
Ultimax.....5%
Interstate.....60&15%
Magic.....50%
Matchless Covered.....60&10%
Wild West.....5%
Zenith.....5%
Baggage Car Door.....33⅓&
Elevator.....40%
Railroad.....5%
Terry Ideal.....60&10%
Terry's Modern.....30%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&2½%
Warner's Pat.....30&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....65&10@65&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&5&5%

He ge Shears—
Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T..75@75&5%
Rolled Blind Hinges Nos. 33 and 34 50&10@60&10&5%
Rolled Plate ..... 70&10@70&10&5%
Rolled Raised ..... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb, 5c. 14 to 36 in. ₩ lb, 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb..2¼c; 14 to 20 in., ₩ lb..2¼c; 22 to 36 in., ₩ lb..2 c
Strap and T ..... 75@75&5%

SPRING HINGES—
Acme ..... 80@10%
American 80%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 80%
Crown 80%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Deer's Spring and Blank Butts..40%
Gem ..... 80&10%
Kell's American 80%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $18.00
Oxford ..... 80&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double..60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E...₩ doz $7.50 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State..₩ doz $4.90..60@60&10%
Reed's Latch and Hinges...₩ doz $13.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3..60&10@60&10 &5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 80&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 80&10%
Nos. 40 and 50 ..... 80%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13 ..... 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 60&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 80&10&5%
Champion Gravity Locking, No. 70 ..... 60&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5, 60&10%
Tip Pattern, Nos. 1, 3 and 5, 60&10&5%
Double Locking, Nos. 20 and 25..75%
Empire, Nos. 10 and 10½ 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80&10%
Noiseless, Nos 50, 60, 65 and 65..80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 000, 45 and 5½..75&5%
Steam oat Gravity Locking, No. 10 ..... 80&10&5%
Stranger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.20 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.75 net
Crescent Cultivator, 7 in. ₩ doz. $4.00 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy..₩ doz. $4 50 net
Cotton ..... 80&12½%
Dunlap's Boys', Ladies', Toy 30%
Garden, Mortar, &c. ..... 75&25%
Iowa Crucible Socket ..... 75&25%
Magic ..... ₩ doz $4.00
Mattock Hoe ..... ₩ doz. $4.00 net
Planter's ..... 80&20%
Texas Cut-Easy ..... ₩ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 60&10@70&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 80&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes..$3.60@$4.00
Ringers ..... ₩ doz. 55@65c
Perfect Rings ..... ₩ gro. 90c
Perfect Ringers ..... ₩ doz. $1.00

Hollow Ware—

IRON—
Granite and Agate-Ware ..... 40&10%
Ironclad Enameled-Ware..60&10&10%
Rustless Hollow-Ware ..... 50@50&5%
Stove Hollow-ware:
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%
White Enameled Ware:
Boilers and Saucepans ..... 62½@65%
Maslin Kettles ..... 75&5@75&10&5%
Tinned Boilers and Saucepans ..... 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—

BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list..60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list..5 &10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list..50@50&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme ..... 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.50; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4¼c

Horse Nails—

	Nos.	6	7	8	9	10
A. C.		28c	28c	28c	21c	21c.

40&10%
American, all sizes, 9½@10c ..... net
Ausable ..... 28c 26c 25c 24c 23c. 40&10&5%
Anchor ..... 28c 21c 20c 19c 18c 40%
C. B. K 25c 28c 23c 21c. 21c 40%
Capewell ..... 19c 18c 17c 16c 16c..10&5%
Champlain..28c 25c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 16c 15c 14c. 30&10&5%
Empire Bronzed 10c
Essex ..... 28c 28c 25c 24c 23c. 40&10@50%
Lyra ..... 9½c 9½c 9½c 9½c 9½c., net
Maud S ..... 25c 28c 23c 21c. 21c 50&10&5%

	Nos.	6	7	8	9	10
Northw't'n.		25c	23c	23c	21c	20c.

25@25&5%
Putnam ..... 23c 21c 20c 19c 18c 25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan ..... 23c 21c 20c 19c 18c 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick ..... ₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20..25%
No. 84 ..... ₩ doz. $15.00..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.50,..20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel ..₩ doz..$1.70@1.80
Drawer, Porcelain..60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 200 Buhl Square Top Lift. No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list ..... $.0.00
No. 2 0 B hl Dash Reflector. No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L ..... 70&10%
Styles A., and E ..... 60&10%
Styles, D., D. O. W., M., S., T. Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 25%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co. Philadelphia Lawn Sprinkler:
No. 1, No. 2, No. 3, ₩ doz. $12.00 $15.00 $24.00..25%

Lemon Squeezers—
Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40 ..... 20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.25 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.60
Jennings' Star...₩ doz. $1.90@$2.10
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood...₩ doz. $6.00 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 35&10%
Iron Bench, new design ..... 35&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's..50%
Cotton Chalk, 20 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50 ..... 10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $5.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 30%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 60&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 20&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 23 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 25%
Stoddard Lock Co ..... 30@33⅓%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Dietz 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 21 ..... 40&5%
Scandinavian ..... 50&40@60&40&10%
Smith & Egge Bicycle 50%
Wrought Iron ..... 75@80%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 25%
Eagle 25%

Mallets—
Sargent's List
Hickory ..... 50@25&10%
Lignumvitæ ..... 50@25&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters—

American.....30%
Nos.....1 2 3 4 5
Each..$5 $7 $10 $25 $50 $60
Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00
Dixon's..... ₩ doz 33⅓%
Nos.....1 2 3 4
$14 $17 $19 $30
Enterprise.....35%
Nos.....10 12 22 33 42
Each...$3 $3.50 $4 $5 $15
Haiss Pattern ₩ doz.....70@70&5%
Nos.....11 12 13
$27 $33 $45
Home No. 1..₩ doz $36.....60%
Little Giant.....50&10%
Nos. 305 310 312 320 322
325 $48 $44 $72 $93
Miles' Challenge ₩ doz...45@45&10%
Nos.....1 2 3
$28 $30 $40
Perfection.....net
Woodruff's ₩ doz.....33⅓%
Nos.....100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name. ..... ₩ lb...8c
Mystic ..... ₩ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ₩ doz.$13.00

Nails—

WIRE AND CUT NAILS—

See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1893.....67½%
Grand Crossing Tack Co. List:
Wire Brads.....80%
Wire Nails.....80%

PICTURE—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list..40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze.....10%
China 25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....20&5%
Lightning.....₩ doz $18.00, 20%
National.....40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point ₩ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—

Acme 50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 40
Hex, off list.....$5 70
Hot Pressed, Square, off list..$5.90
Hex, off list.....$6.70
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable, Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@70%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ₩ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ lb..... .50
No. 1..... .40
No. 2..... .30

Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2⅝ to ⅝ at back, ⅛ to 5-16 edge ₩ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¾x¾ to ⅝ ₩ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ₩ doz.....$12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x⅝ to 1⅛, ₩ lb..... .24
" 2x2x⅛, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston" 60%
"Excelsior" Self-Vulcanizing, per lb 70c.....40%
Boston "Phoenix" Red Sheet, per lb.....60c. net
Extra.....50&5@50&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing.....9c@10c ₩ lb
Cotton Packing.....14c@15c ₩ lb
Italian Packing.....12c@14c ₩ lb
Jute .....6c@7c ₩ lb
Russian Packing.....13c@14c ₩ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance.....₩ doz $4.50
Baldwin .....₩ doz 5.00
Bonanza.....each 5.00
Daisy .....₩ doz 3.50
Dandy.....each 7.50
Eureka, 1888.....each 16.00
Family Bay State.....₩ doz 12.00
Favorite .....₩ doz 5.00
Gold Medal.....₩ doz 4.00
Ideal .....₩ doz 4.00
Improved Bay State.₩ dz..$27@30.00
Little Star.....₩ doz 4.00
Monarch .....₩ doz 13.50
New Lightning.....₩ doz 5.50
Oriole.....₩ doz 4.00
Penn.....₩ doz 3.00
Perfection .....₩ doz 4.00
Pomona.....₩ doz 4.00
Reading, 72 .....₩ doz 4.00
Reading, 78 .....₩ doz 7.00
Rocking Table.....₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable.....₩ doz 4.50
Victor .....₩ doz 13.50
Waverly.....₩ doz 3.75
White Mountain.....₩ doz 4.00

POTATO—

Antrim Combination....₩ doz 5.50
Hoosier.....₩ doz 13.50
Saratoga.....₩ doz 5.50
White Mountain.....₩ doz $4.50

Pencils—

Dixon's:
Carpenters'.....₩ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....₩ gro. 9.00
Lead.....₩ gro $4.50
Lumber.....₩ gro. 6.87
Mascot, Hexagon .....₩ gro. 4.88
Mascot, Round.....₩ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....60&10%
Molding.....50%

IRON PLANES—

Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.... 35%
C. E. Jennings & Co., Iron ...50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's .....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's..50&10&10@50&10&10&5%
Miscellaneous .....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle"..... } 30&10@40%
Ohio ..... }
Sandusky..... }
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....30&5@25%

Pliers and Nippers—

Button's.....70&10@70&10&5%
Carew's Pat. Wire Cutters.....35%
Cronk's:
Button Pattern..... .....70%
Gas Pliers, No. 100.....40%
Stubb's Pat Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13 50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $13.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....20%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers..... .....20%
Iron Levels..... .....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's .....75&10&10%
Stanley's Duplex..... .....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....₩ lb 8c
Joseph Dixon's.....₩ gro $5.75, 10s
Gem.....₩ gro $4.50, 10s
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Poppers, Corn—

Round or square, 1 qt., ₩ doz. $ .75; ₩ gr. $8.50 } 10@
1½ qt. ₩ doz. $ .85; ₩ gr. $9.00 } 15%
2 qt., ₩ doz. $1.15; ₩ gr. $13 00 }
Quincy Corn Popper, 1 qt., ₩ doz. $3 00; 2 qt., $4 00.....33⅓%

Post Hole Diggers—

Ryan's.....₩ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Disston's Combined Pruning Hook and Saw...₩ doz $18.00, 25@25&10%
Disston's Pruning Hook...₩ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....₩ doz $8.50, 30%
Henry's Pruning Shears ₩ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$3.50@3.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $13.00, 25&10%

Pulleys

Awning.....60@60&10%
Axle.....60&10@60&10 10%
Brass Screw.....66⅔@70%
Ceiling.....50@60&10%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%.
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods, 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump..... ....$13.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14 Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 33, Fig. 523, 3 in Deep Well Pump $17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump.....$17.00
No. 70 Fig. 333, 2½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 448, 3 in. Lift Pump.....$10.00
No. 103, Fig. 448, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 225, Fig. 389, Windmill Pump.....$13.50
No. 230, Fig. 403, Windmill Pump.....$13.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 403, Regulator Pump.....$30.00
No. 280 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 265, Fig. 512, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 488, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 320 Fig. 492, Bucket Spray Pump.....$6.50
No. 33 , Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@55
Check.....55%
Spring.....60&55%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

Barn Door, Light, In. ½ ⅝ ¾
Per 100 feet.....$1.40 1.65 1.80
Barn Door, "None Better" No. 1, ₩ foot.....2¼c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet..$1.60 2.00 2.50
Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2¼c
Common.....₩ foot, 2¼c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $2.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft 3c
Sliding Door, Wr't Brass, 1½ in. ₩ ft, 25c.....30&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot. 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.60
Boss, Garden, 18 teeth, net ₩ doz. $2.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.80
Lawn Rake.....₩ doz. $4.75
Malleable.....70&10@75%
Oneida Lawn.....doz. $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....33%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

Stowell's:
Japanned.....80&10%
Nickel-plated..... .....75&10%

HOT AIR—

Ferrosteel, Japanned.....80&10%
Ferrosteel, Nickelplated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

American Screw Co.:
Bay State Rivets..... ...75&5%
Burrs.....75%
Soft Steel.....80%
Copper.....50&10&5@50&10&10%
Norway, list Feb. 26, '96.....70%

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Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%

Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....₩ ℔ 14½@15c
Medium, ¼ in. and larger.....₩ ℔ 13 @13c
Common, ¼ in. and larger.....₩ ℔ 9½@10c
Jute Rope.....₩ ℔ 5½c
Manila:
7-16 in. and larger..₩ ℔ 6¼@6½c
⅜ in.....₩ ℔ 6¾@7 c
¼ and 5-16 in.....₩ ℔ 7¼@7½c
Hay Rope, Med.....₩ ℔ 6½@6¾c
Sisal, ½ in.....₩ ℔ 5½c
¼ and 5-16 in.....₩ ℔ 5½c
7-16 in. & larger.....₩ ℔ 4½c
Med. L'th Y'rn.....₩ ℔ 4¼c
Hay Rope.....₩ ℔ 4½c

Rules—

Athol, Steel.....33⅓&5
Boxwood..5&10&10&10@80&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....3¼@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¾c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles. ₩ doz.....$7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$7.50
No E 55 plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $5.25
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.50
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$7.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$3.00
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tallors' ₩ doz $23.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 3@3½c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@ 40&5%
Sand and Emery Paper.5&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@9c
Common Russia Sash. ₩ ℔ 12½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....34c
"Samson" Braided White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 33c
"Samson" Braided Linen, ₩ ℔ 56c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White, ₩ ℔ 50c. 35@40%
B Quality, Drab, ₩ ℔ 35c..... 15@15&7½%
B Quality, White ₩ ℔ 30c..... 15@15&7½%
White Cotton Braided, ₩ ℔ 21c@23c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '96 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....30%
Enterprise Mfg. Co.....35%
National Specialty Mfg. Co.....35%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....35%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 35%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McFarlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10&50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz.. $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. ₩ doz.....$6.00
Excelsior Saw Tools ₩ dos....$6.00
Bemis & Call Co.'s:
Cross Cut.....60&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....35@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $10.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $33.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer. ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@ $18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$2.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '93.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $2.00.....40&10%
Box, 1 Handle.....₩ doz., $2.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension.....50&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&25%
Fancy Pine.....15%
Painted.....50&5%
Stained.....50&10%
Standard Oil.....35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....5 @5&c&10
Pat. Excelsior.....5 &5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50
Howard-Allard.....30&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
1.5 A.....70&10%
1.25½ Extra.....70%
1.2 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....₩ dos., 50@75c
Screw-Driver Bits, Parr's ₩ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 61, Varnished Handles.70&10%
No. 88.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty. ₩ dos.....$1.00 } 40%
Gem, ₩ dos.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....90%
Brass, Round Head.....85%
Bronze, Flat Head.....87½%
Bronze, Round Head.....85%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Drive Screws.....90%
Iron, Bright Flat Head.....90%
Iron, Br't R'd & Oval Head.....85%
Iron, Forged Flat Head.....90%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

Brass, Flat Head.....45%
Brass, Round Head.....40%
Iron, Flat Head.....45%
Iron, Round Head.....40%

BENCH, HAND, ETC.—

Bench, Iron, ₩ doz., 1 in., $2.75; 1⅛, $3.00; 1¼, $3.50
Bench, Wood, Beech. ₩ doz $2.00@2.20
Chair.....60&10%
Coach.....82½%
Hand Rail Am. Screw Co.....82½%
Hand Rail, H. & B. Mfg. Co.....80%
Hand Rail, Sargent's....70@70&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's.....75%
Jack Screws, Stearns'.....40&10%
Lag Blunt Point, list Jan. 1, 1890. 75&20@80&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....20%
Lester, complete, $10.00.....1&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise.....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, ₩ Set.....$1.25
Surrey, No. 9, ₩ Set.....$1.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....40&10%
Ætna, Steel Nickeled.....70&10%
Barnard's Lamp Trim'rs. ₩ dos.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears.....30&10@40%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1861. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@60%
M. W. Co., list July, 1897.50&10@50&5
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&5%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phoenix and Brydens, from jobb's..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@ $3 40
Perkins Improved Snow.....₩ ℔ 4c

MULE—

Add 50c ₩ keg to above prices.

OX, WROUGHT—

Ton lots.....₩ ℔ 9c
1000 ℔ lots.....₩ ℔ 9½c
500 ℔ lots.....₩ ℔ 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, ₩ gross, $10@11.50

Skate Sharpeners—

Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro. $20.0 @$27.00
Kraut Cutters.....50@60&10%
Woodrough & McFarlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....65%
Cookeyes.....70&10%
Covert Mfg. Co.....45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
} 45&2½ @50%

Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 5 &10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....30%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓%
Wood.....₩ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Cen. Stamp. Co's list. 75&10@30%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&5%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.... Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros. 40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
28% Rogers' Nickel Silver....60&5%
Rogers' Silver Metal.....60&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels. 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated..
Steel and Iron..
} 75&10@75&1 &10.

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₩ lb.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Steels and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....60&10%
Carpet Tacks:
American, Blued....90&10@90&20%
America, Tinned...90&2.@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&2½%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&1"&5"
Basket Tacks.....75&10%
Basket Nails.....8"%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....70&15%
Chair Nails.....8 %
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2.00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks.₩ gr $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks..₩ gr $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " " .. 1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....3.@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@6 %
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.:
IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	9.00	1.55
3	8.25	1.35
4	7.75	1.30
5	7.50	1.20
5½	7.25	1.20
6	7.00	1.15
7	7.00	1.10
8	6.75	1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).30&5%
Snips, J. Mallinson & Co.....33⅓%
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".35%
Cook's.....35%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓%
Prentiss'.....20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₩ doz.....$1.65
D. H. Fork, Steel Regular, each .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ₩ doz.....$3.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz ..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz.....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$2.25
Rope Hitch ₩ doz.....$1.75
Single rail Car, Single Steel T..$3.50
Single rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent.....7.@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3 3 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....8'&10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole..... 15%
Rat.....40@40&10%
Rosenold.....₩ gr $10.00
Hotchkiss:
Metallic Mouse.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross, $12.50
Mouse, Bonanza....₩ doz 90c@$1.00
Mouse, Catch-'em-Alive ₩ doz $2.50.15%
Mouse, Delusion.....40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire.₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz notes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $18 5.; No. 2 ₩ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00

FLY-

Balloon, ₩ doz $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓%
Disston's:
Brick.....30%
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30&10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....30%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action.....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....30%
Parker's.....30@35%
Oval Slide.....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....7.&10%
Simpson's Adjustable.....50%
Stephens'.....30@30%
Tranton.....40&5@40&10%
Wilson'.....35%

SAW FILERS—

Bonney's Nos. 2 & 3, $15.00.....30%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ₩ gross. $3.50@$12.00
American Whip Co.:
List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft. $10.50; 6½ ft., $12.00; 7 ft., $13.50 7½ ft., $15.00; 8 ft., 16.50.
Americus, 9s Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 f ., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $10.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 106, 6 ft.....$5.0
Hand-Made Stocked Java, No. 103.....5½ ft., $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....₩ doz $2.0 @$7.50
True Grip, Raw Hide Center, 4½ ft. $6.00; 5 ft., $6.00; 5½ ft., $6.50; 6 ft., $7.00; 6½ ft., $7.50; 7 ft., $9.00.

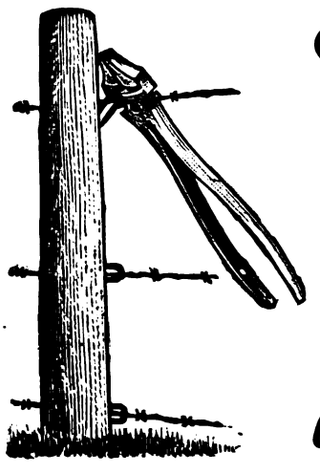
Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....35&10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 85&10@85&10&10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@75&10&5%
Galv., Nos. 0 to 18.75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to 2 30%
Tinned Broom Wire, Nos. 18 to 24, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

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CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

OVERHAULING and REPAIRING

Generators, Dynamos, Motors.

ARMATURE REWINDING AND BUILDING.
COMMUTATOR REFILLING AND BUILDING.
TRANSFORMERS OF ALL KINDS REWOUND.

Remember, We Pay the Freight One Way.

The W. H. Elliott Electric Co., General Electrical Repairers. Fourteen Years' Practical Experience.

14, 16 and 18 Middle Street, Cleveland, Ohio, U. S. A.

Well Worth It.

I. B. Bolles, Wareham, Mass. [*Hardware and Farming tools*]: Enclosed find check for $1 for HARDWARE for the year 1897. We think it is well worth it. . . . .

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10%@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft.,$1.15@$1.20
Steel Bolting Wire Cloth.....80@55

Wire Rope—

List.
Cast-steel.....20&2½&2½ cash
Iron.....20&2½&2½ cash
Iron, Galvanized..20&2½&2½ cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Acme:
Bright.....60@60&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....80@80&10%
Aiken's Pocket (Bright)..$2.10@$3.20
Alligator.....60@60&10%
Always Ready.....33⅓&50&40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Leg Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....20%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894, 2%
Lovell Mfg. Co., list July 2, 1894...3%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....40c
Linseed, City, Boiled, in barrels ₩ gallon.....42c
Out of Town on Spot..₩ gal.....40c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 40@42c
Western, Prime.....40@41c
Extra, No. 1.....3@3 c
No. 1.....30@32c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1. ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ₤.....5c
White Lead, American, in Oil, ₩ ₤.....5½@6c
White Lead, Foreign, in Oil, ₩ ₤ 6@7c
Litharge, Kegs, ₩ ₤.....5¼@5½c
Zinc, American, Extra Dry, ₩ ₤ 3¾@4¼c

Putty—

In bbls. and half bbls.....1¾@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....28½@——c
In machine bbls.....29@——c

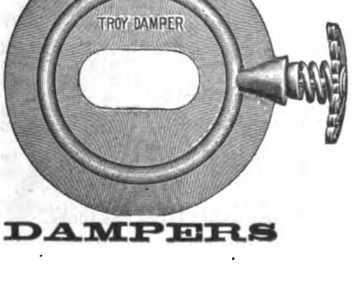
Dry Colors—

Blue, Chinese	₩ ₤ 37	@40	
Blue, Prussian	₩ ₤ 30	@35	
Blue, Ultramarine	₩ ₤ 8	@25	
Sienna, Italian, burnt & powd red	₩ ₤	2½@3½c	
Sienna, Italian, raw & powdered	₩ ₤	2½@2½c	
Umber, Turkey, burnt	₩ ₤	2½@2½c	
Umber, Turkey, raw	₩ ₤	2½@2½c	
Green, Chrome, Common	₩ ₤ 5	@12	c
Green, Paris, in bulk	₩ ₤ 11	@12	c
Indian Red, American	₩ ₤ 2	@ 8	c
Indian Red, English	₩ ₤	4½@8	

Colors in Oil—

Black Coach Japan	₩ ₤	18½@20	
Black Coach Japan in Oil	₩ ₤ 12	@18	c
Black Drop	₩ ₤ 7	@10	c
Black Lampblack	₩ ₤ 20	@33	c
Black Lampblack, common	₩ ₤	7@15	c
Blue, Chinese	₩ ₤ 35	@40	c
Blue, Prussian	₩ ₤ 30	@40	c
Blue, Ultramarine	₩ ₤ 12	@18	c
Brown, Sienna, burnt	₩ ₤ 7	@10	c
Brown, Sienna, raw	₩ ₤ 7	@10	c
Umber, burnt	₩ ₤ 7	@10	c
Umber raw	₩ ₤ 7	@10	c
Brown, Vandyke	₩ ₤ 7	@12	c

PIPE



DAMPERS



ALASKA, ALWAYS COLD.

STOVE LID LIFTERS,

POKERS, SHOVELS, FIRE SETS.

Patentees and Sole Manufacturers,

TROY NICKEL WORKS

ALBANY, N. Y.

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GOODELL COMPANY, ANTRIM, N. H.

THE BEST

BUTCHER KNIVES

ON EARTH.

AGENTS:

ALFORD & BERKELE CO., 77 Chambers St., New York.

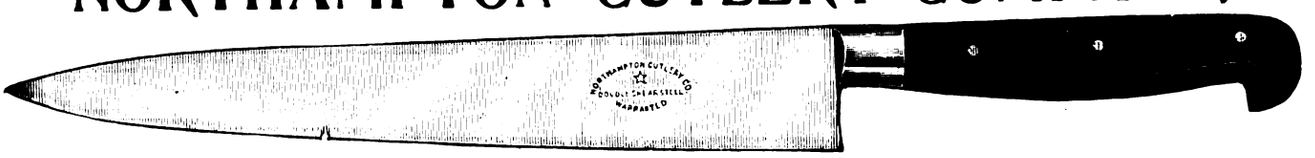
M. C. RODEARMEL, 516 Boston Block, Minneapolis.

C. A. MAYDWELL, 23 Davis St., San Francisco.

G. W. HODGES, 216 Northern Office Bldg., Chicago.

HENRY KEIDEL & CO., 32 Hopkins Place, Baltimore.

NORTHAMPTON CUTLERY COMPANY.



Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office, Northampton, Mass.

New York Office and Salesroom 96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears

ACKNOWLEDGED THE BEST



Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

R. HEINISCH'S SONS CO.,

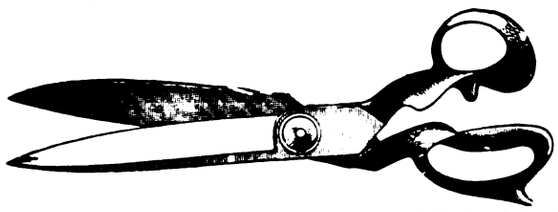
New York Office, 90 Chambers Street. NEWARK N. J.

RESULTS ARE SO SATISFACTORY.

Capewell Horse Nail Co., Hartford, Conn. [*Horse Nails*]: We have been liberal advertisers in your journal for years, and the results are so satisfactory that we expect to be much more liberal for years to come.

WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

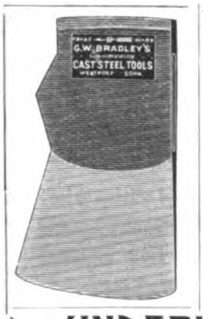
YOU SHOULD HANDLE THOSE MADE BY

J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .



Extra Quality Axes.

Wide Bit,	Long Island,
Rockaway,	Dock,
Post,	Ice.

UNDERHILL, CLINCH & CO.,

SELLING AGENTS, No. 94 Chambers Street, NEW YORK.

TRADE B MARK

G.W. BRADLEY'S

SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



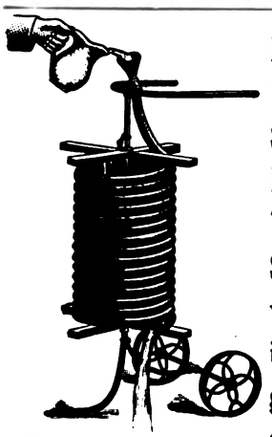
BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS, BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, ETC.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

Main Office and Works, No. 240 North Union St., Chicago, Ill., U. S. A. Eastern Office, No. 284 Pearl St., New York.



IT EXPLAINS Why it is Superior to all other Hose Reels. This The Hartzell Self-Draining Hose Reel will carry more hose, it will drain, preserve and greatly increase the durability of Hose.

Patented January 5, 1897. Others applied for.

It is a beautiful ornament for a lawn. It is convenient, light, strong. It will please your customers as it saves money. For prices and Sample Reels, address

The Hartzell Novelty Works, (Sole owners and man'f'rs) ALLIANCE, OHIO.



LACLEDE-HERCULES BATTERIES

For Door Bells, Telephones, and Annunciators.

WARRANTED stronger and longer lived than any other Sal-Amoniac Battery made. . . . . .

MADE ONLY BY

PERU ELECTRIC MFG. CO., PERU, IND

ALSO MAKERS OF

ELECTRICAL PORCELAIN OF ALL KINDS

Send for Catalogue.

To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted] and TWENTY-FIVE CARBON Steel will last only so long [redacted]

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Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Salem Wire Nail Co., Salem, O.
Chas. J. Stebbins, New York.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York,
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.
Pike Mfg Co., Pike Station, N. H.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Grand Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
William Connors, Troy, N. Y.
Jos. Dixon Crucible Co., Jersey City, N. J.

Patent Solicitors.
Dyer & Driscoll, New York.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Poles.
Geo. S. Parkes & Co., Nashville, Tenn.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
Meyers' Putz Pomade Co., Boston.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Miner & Peck Mfg. Co., New Haven, Ct.
Vieillard & Osswald, Brooklyn, N. Y.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
F. J. Mattison, New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Radiator Deflectors.
J. Rutherford & Son, Akron, Ohio.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Rat and Mouse Traps.
See Traps.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia.

Reels.
Hartzell Novelty Works, Alliance, Ohio.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Rivets.
Bruce & Cook, New York.
Union Nut & Bolt Co., New York.

Rollers.
Fulton Machine Co., Canal Fulton, O.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

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N. J. Car Spring & Rubber Co., Jersey City, N. J.
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Union Nut & Bolt Co., New York.

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National Safe Deposit Co., N. Y.

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E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
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Gilbert & Bennett Mfg. Co., New York and Chicago.
Harrington & King Perforating Co., Chicago.

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Smith & Egge Mfg. Co., Bridgeport, Conn.
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Samson Cordage Works, Boston.
Tower & Lyon, New York.

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Smith & Egge Mfg. Co., Bridgeport, Conn.

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H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

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E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
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National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

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Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

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John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scrapers, Wheel.
Sidney Steel Scraper Co., Sidney, O.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

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E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co. Georgetown, Conn, New York Chicago.
A. J. Phillips Co., Fenton, Mich.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

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John H. Graham & Co., New York.
Tower & Lyon, New York,
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.
Geo. S. Parkes & Co., Nashville, Tenn.

Shears and Scissors.
Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
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Henry H. Sheip & Co., Philadelphia

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Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Sign and Price Markers.
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Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
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New York Belting & Packing Co., New York.

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John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington, Conn.

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John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

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Ferrosteel Co., Cleveland, Ohio.

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Bruce & Cook, New York.

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A. J. Phillips Co., Fenton, Mich.

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Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.
Harrington & King Perforating Co., Chicago.

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Bruce & Cook, New York.

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Geo. S. Parkes & Co., Nashville, Tenn.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

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Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Staples.
Salem Wire Nail Co., Salem, Ohio

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Stencils
Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Estate of P. D. Beckwith, Dowagiac, Mich.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Stove Mittens.
Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J
J. L. Prescott & Co., New York.

Stove Trimmings.
Troy Nickel Works, Troy, N. Y.
Logan & Strobridge Iron Co., New Brighton, Pa.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
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Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

Structural Iron Work.
Stewart Iron Works, Cin'nati, O.

Tackle Blocks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
Alfred Field & Co., New York.
Higgins Mfg Co, Boston.
Knapp & Pratt Mfg. Co., Geneva, Ohio.

Tailors' Irons.
Union Heater Supply Co., Detroit, Mich.

Tape Measures.
Alfred Field & Co., New York.
Waterbury Brass Co., New York.

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Holroyd & Co., Waterford, N. Y.

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Cleveland Target Co., Cleveland, Ohio.

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New York Belting & Packing Co., Ltd., New York.

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C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

Tin-Plate.
Bruce & Cook, New York.

Tires Rubber.
New York Belting & Packing Co., New York.

Toilet Paper.
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Tools.
Armstrong Mfg. Co., Bridgeport, Conn.
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Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Th. M. Hass, New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg Co., New York, Cincinnati, Chicago, Kansas City.

Traps.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Gilbert & Bennett Mfg. Co., New York and Chicago.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.

Trowels.
E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.
Boston & Lockport Block Co., Lockport N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.
Sidney Steel Scraper Co., Sidney, Ohio.

Tubes, Seamless Drawn.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.

Valves.
Berger Bros., Philadelphia.
Kendrick Valve & Washer Co., Syracuse, N. Y.
F. E. Myers & Bro., Ashland Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Vises.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Howard Iron Works, Buffalo, N. Y.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.
Sprague Umbrella Co., Norwalk, Ohio.

Washers.
Kendrick Valve & Washer Co. Syracuse, N. Y.
Union Nut & Bolt Co., New York.

Washing Machines.
W. H. Harrison & Co., Massillon, Ohio.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.
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E. Imhauser, New York.
Nanz & Co., New York.

Wax Tapers and Torches.
T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Weather Strips
Novelty Mfg. Co., Canton, Ohio.

Wheelbarrows.
Akron Cultivator Co., Akron, O.
Arnold Metal Wheel Co., New London, Ohio.
Bryan Mfg. Co., Bryan, Ohio.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Sidney Steel Scraper Co., Sidney, Ohio.

Window Guards.
Gilbert & Bennett Mfg. Co., New York and Chicago.

Window Guards, Punched.
Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.
Samson Cordage Works, Boston.

Window Screens.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

Window Stop Adjusters.
Taplin Mfg. Co., Forrestville, Ct.

Wire, Manufacturers.
Bruce & Cook, New York.
Dunbar Bros., Bristol, Conn.
Alfred Field & Co., New York.
Gilbert & Bennett Mfg. Co., New York and Chicago.
New Jersey Wire Cloth Co., New York, Trenton, Chicago San Francisco.
Salem Wire Nail Co., Salem, Ohio.
The Malin & Co., Cleveland, Ohio.
Waterbury Brass Co., New York.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Cloth.
E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Gilbert & Bennett Mfg. Co., New York and Chicago.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Goods Manufacturers.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Fuller Bros. & Co., New York.
Gilbert & Bennett Mfg. Co., New York and Chicago.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
T. F. Welch & Co., Boston.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Gates, Fences and Fencing.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.
Stewart Iron Works, Cin'nati, O.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Lathing.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.

Wire Nails.
Bruce & Cook, New York.
Salem Wire Nail Co., Salem, Ohio

Wire Work.
Edward Darby & Sons, Philadelphia.
Gilbert & Bennett Mfg. Co., New York and Chicago.

Wrenches, Manufacturers.
Armstrong Mfg. Co., Bridgeport, Conn.
Coes Wrench Co., Worcester, Mass.
Alfred Field & Co., New York.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Wrought Butts.
Bommer Bros., Brooklyn, N. Y.
Reading Hardware Co., Reading Pa.

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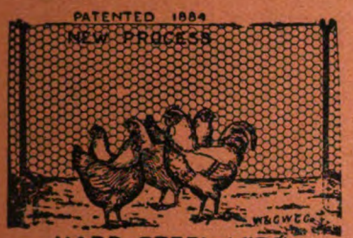
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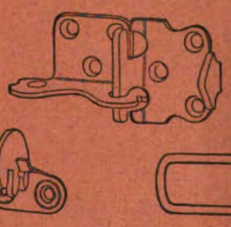
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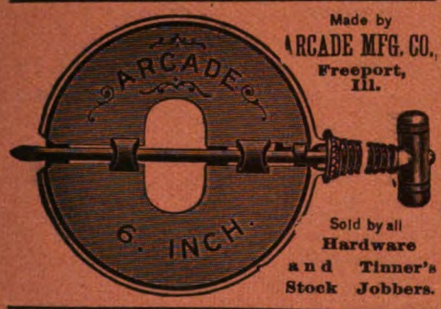
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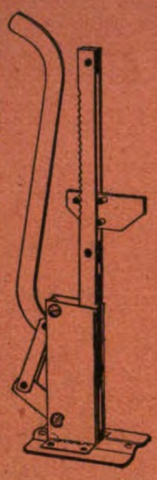


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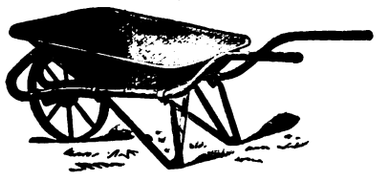
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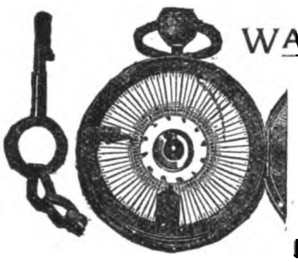
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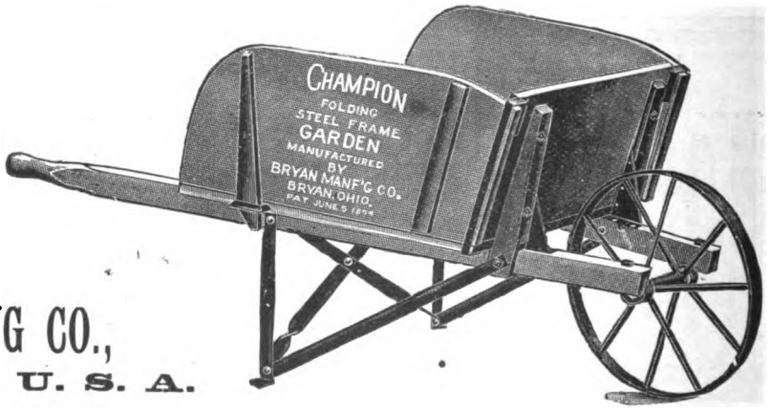
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Highest Award given our Files wherever exhibited

Henry Disston & Sons, Incorporated,

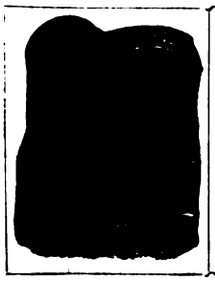
Philadelphia, Pa.

DIXON'S Carpenters' Pencils Lumbermens' Crayons

Are salable goods for any Hardware Dealer and carry with them a good profit.

Have you our new Production Catalogue? It is sent free of charge.

Jos. Dixon Crucible Co.,
Jersey City, N. J.

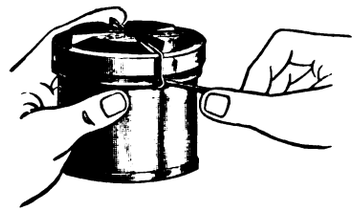


"The Safety Weather Strip" FOR USE ON
ALL OUTSIDE DOORS.
THEY PREVENT
Rain, Snow and Wind
FROM BLOWING UNDER THE DOOR.
WE WANT AN AGENT IN EVERY CITY AND COUNTY.
Manufactured by **The Novelty Mfg. Co.,**
Office, 40 E. Fifth Street, Canton, Ohio.

WAGON UMBRELLAS and BUGGY CANOPIES.
Everything in that line.
Our motto: "Keep a-goin'."
Especial attention invited to
Sprague's Patent Giant Frame Wagon Umbrella.
It is the Strongest Umbrella on the globe.
Write to us, and let us prove it.
SPRAGUE UMBRELLA CO.,
Norwalk, Ohio.



It Doesn't Burn off.



Gillespie's Elastic Iron Enamel is practically indestructible, and is unequalled for use on Stove Pipes, Registers, Grates, Locomotive Smoke Stacks, etc. This is the season of the year when its sale in pint and half-pint cans to the household trade is enormous.

Your stock is not complete without it. Write for jobbers' special discount, and send us a sample order.

Chas. H. Gillespie & Sons,
Varnish Makers, 125 to 137 Dey St.
Jersey City, N. J. Established 1824.



ECONOMIZE.

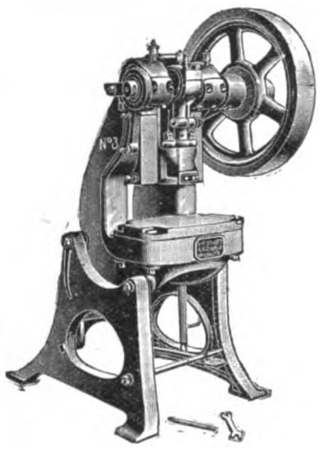
SHELF BOXES { MADE TO ORDER. ESTIMATES FURNISHED.

HENRY H. SHEIP & CO.,
Columbia Ave. and Randolph St.,
PHILADELPHIA.

"Replies From All Sections."

McIntosh-Huntington Co., Cleveland, Ohio. [*General Hardware and Bicycles*]: As an advertising medium, we have recently had occasion to test HARDWARE in a manner that would give us some idea as to how successful it can be used. Our advertisement did not occupy a very prominent position, but was of a character to excite the cupidity of the reader. We found that within two days after your paper came out, we commenced to receive replies from all sections of the country to the advertisement. This would seem to be sufficient proof that yours is a good medium.

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VIEILLARD & OSSWALD,

Manufacturers of

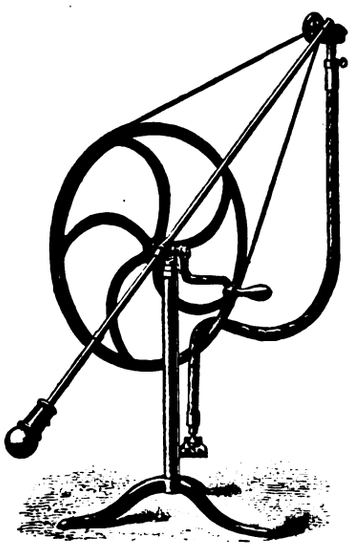
PRESSES AND DIES AND SPECIAL MACHINERY

FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

708-710 Jamaica Avenue, BROOKLYN, N. Y., U. S. A.

WRITE FOR PRICES.



OVER 2000 MACHINES SOLD IN SIX MONTHS.

1000 Machines and 10,000 Cutters in Stock.

Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . . . . .

ADVANCE ORDER FOR

3000 IN EUROPE ALONE.

.. CATALOGUE SENT FREE TO ALL ..

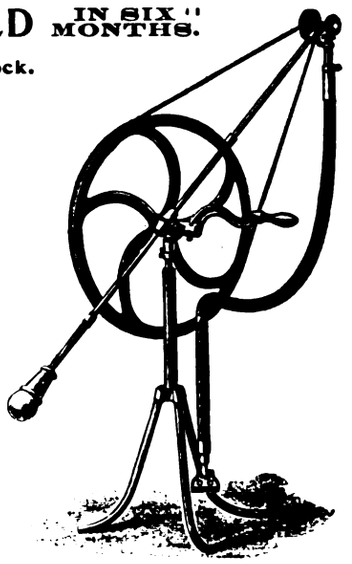
SHOWING OUR DIFFERENT STYLES OF

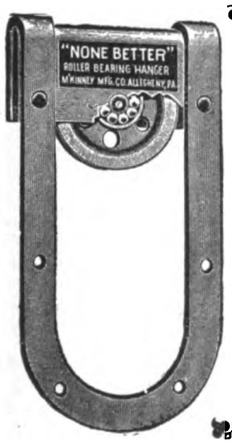
Steam, Electric, Foot & Hand Power

HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,

110, 112 & 114 West 32nd St., New York.





STEEL DOOR HANGERS.

WRITE FOR PRICES ON

No. 1 Special and No. 2 Standard.

THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

McKINNEY MFG. CO., - Allegheny, Pa.

NICKEL PLATING

LACQUERS, CYANIDE POTASH, NICKEL SALTS.

ESTAB. 1822. INCOR. 1891.

THE HANSON & VAN WINKLE Co.

OFFICE NEWARK, N.J., U.S.A. AND WORKS

NEW YORK. CHICAGO.

TRIPOLI, ROUGE, BUFFS, &c.

OUTFITS

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It Leads them all. . .

Our '78 Apple Parer is known everywhere as the Standard parer Other celebrated parers are:

'72 Apple Parers,
"Baldwin" Apple Parers,
"Advance" Parer, Corer and Slicer.

NEW YORK PHILADELPHIA CHICAGO.

THEO. M. HASS,

MANUFACTURER OF

Fancy Brass Goods, Plain and Embossed Borders, Locks, Hinges, Catches, Clasps and Trimmings, for Albums, Books and Fancy Boxes.

Goods to Order a Specialty. Dies and Tools.

176 CENTRE STREET, (Opposite Earle's Hotel.) NEW YORK.

UNDERHILL, CLINCH & CO.,

94 Chambers Street, New York.

We carry in stock 126 sizes and kinds of

SHOVELS, SPADES AND SCOOPS

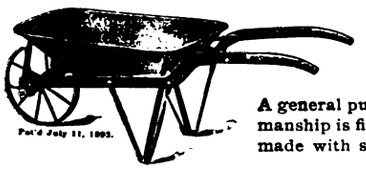


MANUFACTURED BY

OLIVER AMES & SONS CORPORATION.

Send for our Shovel Catalogue showing goods carried in stock and new prices.

ALL STEEL BARROWS Except Handles.



For Coal, Ashes, Cinders, etc.

A general purpose barrow. Capacity of tray, 4 cubic feet. The workmanship is first class in every respect; all riveted together. But wheels made with self-oiling boxes. Make your orders now for 1897.

THE ARNOLD METAL WHEEL CO., - - New London, Ohio.

BRIGHT ATTRACTIVE CUTS OF HARDWARE GOODS

ESTABLISHED 1885

OTTO NEUBURG

Designing and PHOTO-ENGRAVING

BY ALL MODERN METHODS

99 MAIDEN LANE, New York

PROMPT! RELIABLE! PRICES O.K.

ELECTROS, HALFTONES

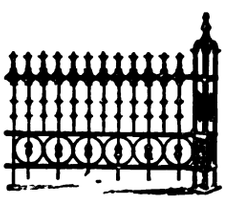
WE WANT AGENTS TO SELL OUR **IRON FENCE**

We furnish first-class work at prices that bring the trade. Write for Catalogues, Prices and Terms

The Stewart Iron Works,

CINCINNATI, O.

Manufrs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





FLOWER-POT STANDS

OF ALL KINDS.

SEND FOR CATALOGUE.

Iron Fencing, Entrance Gates,

FIRE ESCAPES, JAIL CELLS, ROOF CRESTING, BANK and OFFICE RAILINGS, GRILLES,



AND ALL KINDS OF WIRE & IRON WORK.

E. T. BARNUM, DETROIT, MICH.

Agents Wanted Mention this paper.

FAMILY GRINDSTONES.

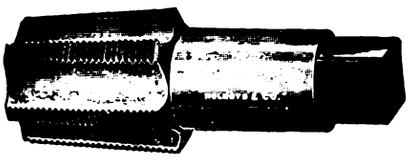
Great Reduction in Prices.

If you have not received our revised price list write for it.

The Cleveland Stone Co.,

Cleveland, O.

Hardware Dealers Send us your address and we will mail Catalogue and discount sheet of **STOCKS AND DIES, TAPS, etc.**



Holroyd & Co.,

Waterford, N. Y.

HAVE BEEN WELL SATISFIED.

Buffalo Cycle Co., Buffalo, N.Y. [*Bicycles*]: We are pleased indeed to add our testimonial to the merits of HARDWARE as an advertising medium. We have been extremely well satisfied with our advertising therein, although of course it is impossible for any manufacturer to trace the ratio of direct results from any one paper. . . . . .

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"EVERYTHING IS COMING UP."

BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

Sheep Skin Mitten.

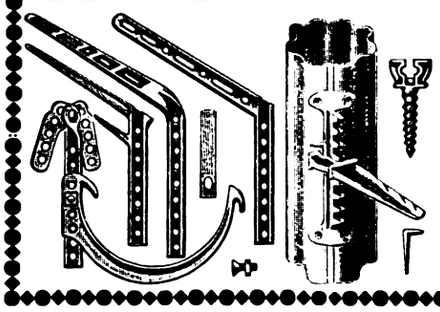


Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

Diamond Hardware Co.,

624 Atlantic Ave., Boston, Mass.

BERGER'S GUTTER HANGERS



And Pipe Fasteners are the best made. Different styles and shapes, all adjustable to suit any need. Send for Hanger Circular Z, showing all the styles. . . . . .

BERGER BROS.,

PHILADELPHIA, PA.

THE "DIAMOND" 'W. & B." UNIVERSAL SELF-OILING DRILLS.

STYLE "A." STYLE "B."

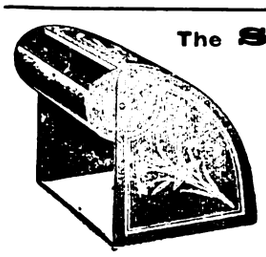


Furnished with either Straight or Taper Shanks, any length desired. Three Styles.

Send for Descriptive Matter and Special Discounts. MANUFACTURED ONLY BY

THE WHITMAN & BARNES MANUFACTURING CO.,

NEW YORK, N Y. CINCINNATI, OHIO. CHICAGO, ILL. KANSAS CITY, MO.



The STAR DEFLECTOR.

SUPERIOR TO ALL OTHERS.

Used on Hot Air Furnaces and Radiators. Handsome, Simple, Durable. In moistening the atmosphere it overcomes the only objection to using Hot Air Furnaces. . . .

Manufactured only by

J. RUTHERFORD & SON,

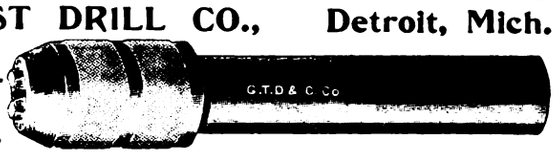
111 S. Main Street, - - - - AKRON, OHIO.

DETROIT TWIST DRILL CO., Detroit, Mich.

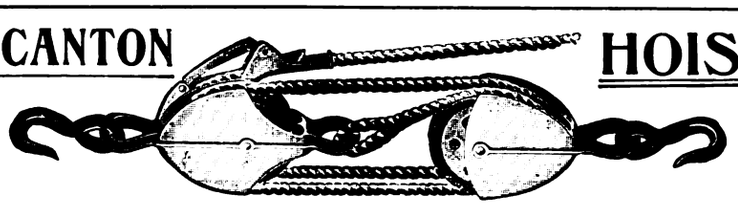
Sole Manufacturers of

Graham Grooved Shank System of Chucks and Drills.

. . . SEND FOR CATALOGUE.



The CANTON HOIST



Can be used perpendicularly, horizontally, and at any angle. . . .

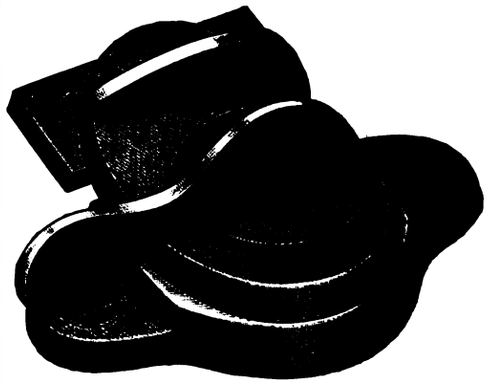
In factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics. Manufactured by

THE NEY MFG. CO., CANTON, OHIO.

New Stamped Metal Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

PATENTED AND PATENTS PENDING.

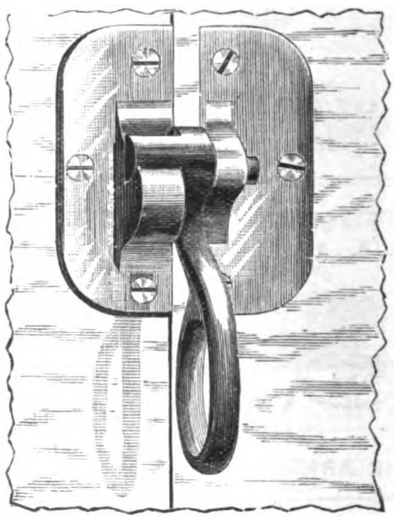
MANUFACTURED BY

HOBART B. IVES & CO.,

New Haven, Conn.

The CONROY PATENT Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

P. J. CONROY,

Beware of Infringements. Paschall, Phila.

"NO BETTER MEDIUM."

U. S. Mfg. Co., Fond du Lac, Wis. [*Cyclometers, Lamp Brackets.*]: Manufacturers of bicycles and bicycle sundries find their best customers among the Hardware trade. To reach this trade, we know of no better advertising medium than HARDWARE. Our adververtising in HARDWARE has been of an effective character.

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CATALOGUE FREE

GET OUR REDUCED PRICES



WELL TANK & SPRAY PUMPS

HAY CARRIERS, FORKS, PULLEYS &c.



F. E. MYERS & BRO.

ASHLAND, OHIO.

FULGER.CIN.

BRUCE & COOK,

TIN PLATES AND METALS,

186, 188 and 190 Water St.,
248 and 250 Pearl St., NEW YORK.

We give below a list of goods which we have in stock. You will find our prices as low as any in the trade, quality considered. It will give us pleasure to receive your orders, which shall have our very best attention and prompt shipment.



Antimony
Babbit Metal
Bell's Edging Machines
Boiler Rods
Bottom's Seam Closer
Bucket Covers
Burritt's Double Seamers
Charcoal Sheet Iron
Chimney Cowls—Bradbeer's Patent
Cold Rolled Iron
Common Sheet Iron
Copper Bolts
Copper Bottoms
Copper Sheets and Circles
Copper Wire
Corrugated Leader, Galvanized Round & Square
Corrugated Leader, Tin Round and Square
Corrugated Leader, Elbows and Shoes to match Tin and Galvanized Leader
Crystal Stove Boards
Dampers & Damper Attachments
Dripping Pans
Eave Trough
Eave Gutter
Eave Trough Irons and Spikes
Elbows
Embossed Sheet Iron
Embossed Elbows and Pipe
Fire Pots
Galvanized Sheet Iron
Gutter Strainers
Hard Metal
Leader Hooks, Black and Tin'd
Lead
Little Wonder Punch
Lysle Cleat Former
Mallets
Malleable Ears
Maneer's Bench
Marking Metal
Metallic Paint
Milk Can Handle
Milk Can Trimming
Nails Roofing, ¾ and 1 inch.
Pail Woods
Perforated Tin
Planished Sheet Iron
R. G. Cleaned Sheet Iron
Ribbed Leader
Rivets
Roofing Tin
Roofing Cross Lock Seamers
Rosin
Russia Sheet Iron
Solder
Soldering Coppers
Spangler's Double Lock Edger
Spelter
Spelter Solder
Squaring Shears
Stereotype Metal
Stove Bolts
Stove Pipe
Stove Pipe Collars
Stove Pipe Crimper and Beader
Strainer Wire
Taggers' Iron
Taggers' Tin
Tin
Tin Plates
Tin Shingles
Tinned Tacks
Tinners' Machine
Tinners' Tools
Universal Chimney Cap
Wall Hooks
Water Cut-offs
Wire
Wire Nails, Barbed
Zinc Sheet
Zinc for Etching purposes
Zinc Stove Boards

. . . THE . . .

CHASE PUMP & MFG. CO.,

Manufacturers of the Most Complete Line of

DOUBLE-ACTING FORCE LIFT and WIND MILL

PUMPS

On the Market.

The ONLY Pump with ALUMINUM VALVE SEAT.

Write for Catalogue and Prices.



THE CHASE PUMP & MFG. CO.,

Mention this paper. COLUMBUS, OHIO.

BRANCH HOUSES:

SCOBIE & PARKER, Pittsburg, Pa.
PARLIN & ORENDORFF CO., St. Louis, Mo.



PITTSBURGH PUMP CO.

MANUFACTURERS OF ALL KINDS OF

FORCE LIFT SPRAY TANK PUMPS

SEND FOR CATALOGUE

322 LIBERTY ST. PITTSBURGH PA.

"We Sell Everything."

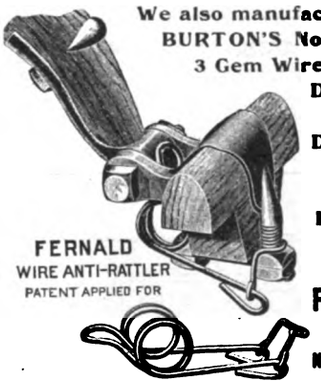
Wanted Manufacturers to send catalogues of different lines of goods with best quantity prices and terms. We close out jobs of all kinds **for Cash.** Send samples for approval. We handle big lines of 5 and 10 cent goods.

WM. KLINE, New Orleans, La.

PROPRIETOR OF

"Wm. Kline's Bargain House," (Jobbing only.)
"Boston 20th Century Store."
"Kline's Strictly 5 and 10 cent Store."

ALL CENTRALLY LOCATED.



We also manufacture the BURTON'S No. 1, 2 and 3 Gem Wire and Wire Drive Anti-Rattlers, Dandy Clothes Rack, and BECKER'S Game Traps.

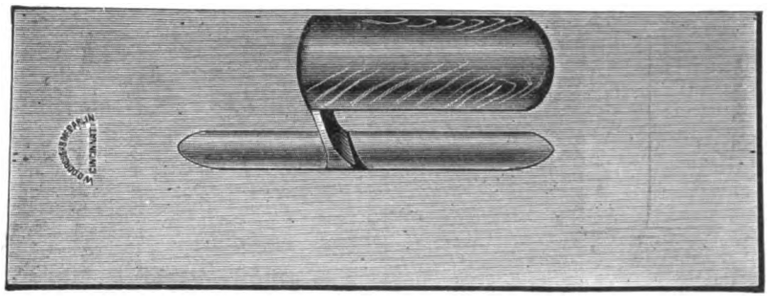
Fernald Mfg. Co., NORTH EAST PA.

PLEASED with RESULTS.

John N. Hager, Fort Atkinson, Wis. [*Fork, Shovel, Rake and Hoe Brackets*]: Am well pleased with the results of my advertisement in HARDWARE.

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"There Are Others," But not the Genuine, ALL Imitations.



THE ONLY ORIGINAL

WOODROUGH & McPARLIN (CINCINNATI) PLASTERING TROWEL

——IS MFD. BY——

The National Saw Co., General Office: NEWARK, N. J.

Do You Want Something Made?

My Specialty is to Manufacture for Other Parties.

Reasonable arrangements can be made. WRITE ME TO-DAY.

C. H. Angus, . Albany, N. Y.

Mfr. of Castings; Nickel and Brass Plating, Metal Pattern Maker, etc.



STOVE LID LIFTERS

30 KINDS.

COPPERED, TINNED, NICKEL PLATED.

. . . WE MAKE TONS OF THEM. . . .

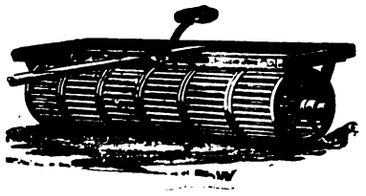
LOGAN & STROBRIDGE IRON CO., New Brighton, Pa.

J. K. WILLIAMS, MACHINE SHOP.

210 CHERRY STREET, AKRON, OHIO.

Special Machinery

Estimates made on all kinds of Special Machinery, Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates. . . . . .



Cyclone Pulverizer.

The Greatest Seller known. Actually Sells on Sight. The only Pulverizer sent on approval and trial. See it and you will sell it. . . . See also our IRON KING and LEADER STEEL ROLLER. Best line of Rollers made.

The Fulton Machine Co., Sta. B, Canal Fulton, O.

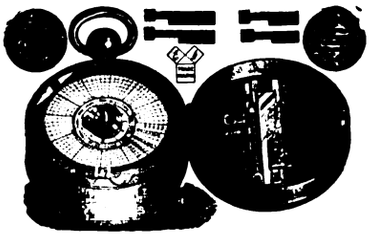
Malin Spool Wire

FOR RETAIL TRADE



THE MALIN & CO. CLEVELAND, O.

Watchman's Improved Time Detectors



12 and 24 different Keys, with Safety Lock Attachments. U. S. Patents, 1876-76-77. Re-Issue, 1880. Trade Marks 1881, 1882.

1876. Highest Award and Medal of Honor at the Centennial Exhibition, for Portability, Security, and general adaptation for purposes intended.

1877, 78, 79. Medals for Excellence and Superiority at the American Institute.

1881. Award at the International Cotton Exposition in Atlanta.

1883. At the National Exposition for Railway Appliances at Chicago, the only Medal for the most Complete and Perfect Instrument.

This Watchman's Time Detector contains all the modern improvements. The only perfect instrument in the market. Warranted in every way. It cannot be tampered with successfully.

E. IMHAUSER,
206 Broadway, New York.

The Chicago Rolling Ladder

Especially Adapted for Hardware Stores.



THE CHICAGO ROLLING LADDER.

The first requisite for a store ladder is **ease of operation.** The Chicago is the only ladder of the style shown above that does work easily. If you would save one-half your labor, fit your store up with either the **Chicago** or **Bicycle Step Ladder** system. Write for Catalogue illustrating our 4 distinct ladder systems to

The Bicycle Step Ladder Co.,
50 STATE STREET, CHICAGO, ILL.

AGENCIES:
Eastern Agent, H. N. YOUNGS, 308 W. 22nd Street, New York City.
New York and vicinity, E. J. HUSSEY & Co., 80 John Street, New York City.
California, JOHN WOODLOCK, 26 Beale Street, San Francisco, Cal
Northwestern States, HOWE SCALE CO., Portland Oregon.
Texas and Southwest, ED. FOY, Dallas, Tex.

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A GOOD THING.

IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.



NEW YORK STAMPING CO.,

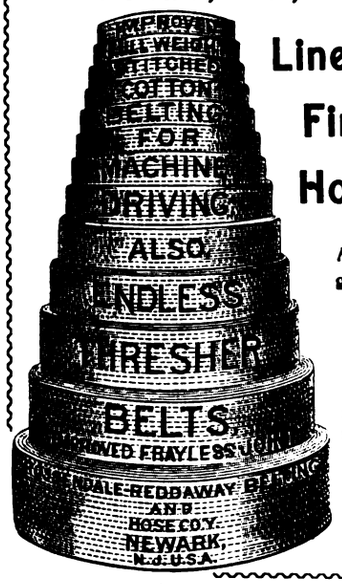
SOLE MANUFACTURERS,

North Eleventh and Berry Sts., BROOKLYN--GREATER NEW YORK

THE

ROSSENDALE - REDDAWAY BELTING & HOSE CO.,

Newark, N J., U. S. A.



Linen Fire Hose

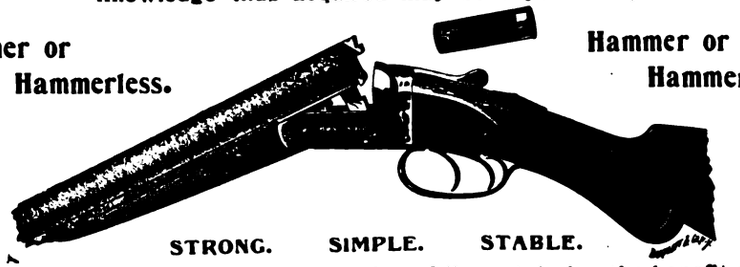
All grades.

Made to meet requirements of Underwriters.

REMINGTON SHOT GUNS

Are the invaluable result of 80 years of mechanical experience Knowledge thus acquired may be depended upon.

Hammer or Hammerless.



Hammer or Hammerless.

STRONG. SIMPLE. STABLE.

You need a good gun for your Fall shooting. Why not derive the benefit of this knowledge at a reasonable price? Send for complete catalogue.

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B. G. I. Hand Loading Outfits

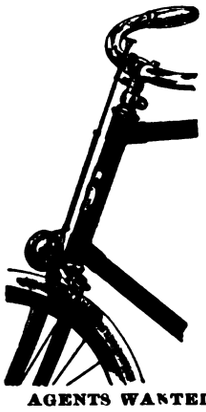
Are guaranteed to give absolutely correct measurements. . .



In three sizes for 25, 50 or 100 Shells. . . .

Send for new and complete Catalogue just out.

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"The SUCCESS OF THE PHILADELPHIA SHOW" . . .

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OSTERMAN BICYCLE BELL.

Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
Quickly adjusted to any wheel.
Strong, Simple.

AGENTS WANTED IN EVERY TOWN.

MADE ONLY BY

JOSEPH OSTERMAN & CO.,

4411 Main St., MANAYUNK, PA.

"FOR YEARS."

Henry Disston & Sons, Philadelphia, Pa. [*Saws, Files, etc.*]: Our opinion of HARDWARE is contained in the fact of our having carried an advertisement in your paper for a period of years.

THE "SPARK" '97 MODEL

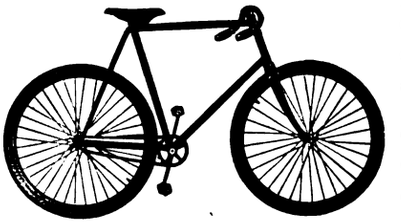
List, $60.

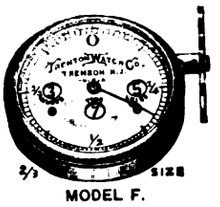
ONE WHEEL. Best Grade. ONE PRICE.

If you're IN LINE for a deal we promise to interest you. Address

CANTON CYCLE MFG. CO.,

Canton, Ohio.





MODEL F.

RETAIL DEALERS

Should ask their jobbers for revised prices on Model F—1,000 mile "Midget" Cyclometers. Registers 1,000 miles and repeats. ***Price $1.00.*** You can make money on them, as they out-sell larger models.

TRENTON WATCH CO.,

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THE FINISHED STEEL CO

YOUNGSTOWN. OHIO

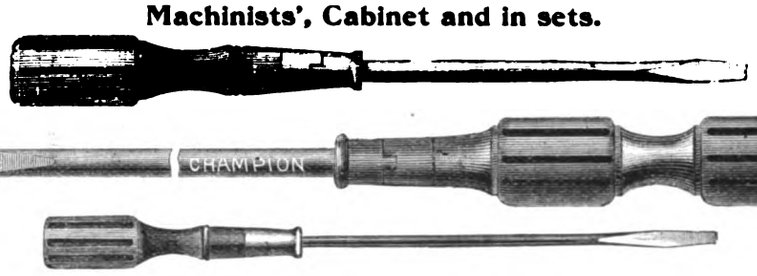
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CARPENTERS AND MACHINISTS' TOOLS.

TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



See that the word "CHAMPION" is on each Screw Driver.

STEPHENS' PAT. VISES.

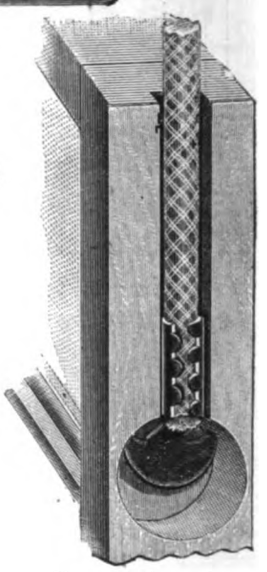


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PHILLIPS'

Sash Cord,
Sash Weight,
Sash Chain
and
Sash Ribbon
Fasteners.



Shows Fastener in use.

TOWER & LYON,

95 CHAMBERS and 77 READE STS., NEW YORK.

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PADLOCKS, POLICE GOODS, ETC.

ICE SKATES.



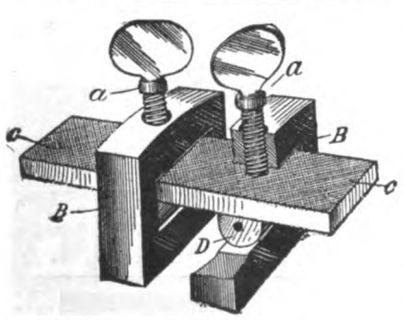
UNION HARDWARE CO.'S RACING SKATE,
CALLED THE
DONOGHUE RACING SKATE.

Made in three lengths, 14, 16, 18 inches.



The Union Skate Sharpener

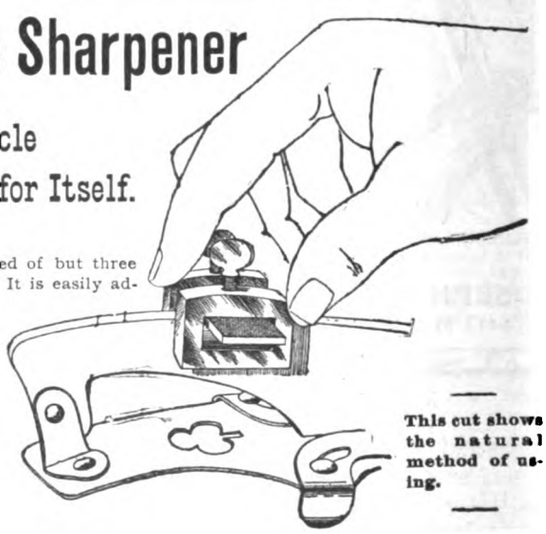
A New and Useful Article
Which Speaks for Itself.



This device is simple, being composed of but three parts—two side pieces and a short file. It is easily adjusted at once. A child can operate it perfectly and do as good work as a machine shop.

It will adjust itself to any make or style of skate.

It always works and may be carried in the pocket.



This cut shows the natural method of using.

Sells on Sight. **Send for Price.**

—MANUFACTURED BY—

UNION HARDWARE CO.,

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

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MORRILL'S Perfect Saw Sets.

BENCH STOPS.

UNIVERSAL PUNCHES.

TRADE M MARK

CAR SEALERS.

CUTTING NIPPERS.

This Trade Mark is stamped on all Saw Sets and other Hardware Specialties of my make.

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E. C. Atkins & Co.,

ATKINS' TUTTLE TOOTH CAST STEEL WARRANTED INDIANAPOLIS, IND.

Indianapolis, Ind.

MFRS. OF

CIRCULAR, BAND, CROSS-CUT AND HAND

SAWS.

THE ORIGINAL

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The best saw in the world for the money. Fine Steel. Patent Temper. Why not supply your trade with the best saws, and buy the Atkins Brands? They're the best.

BRANCH HOUSES:

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Write for Price List and Trade Price.

OUR REGISTERED TRADE MARKS

CROSS-CUT SAWS

ARE

"Silver-Steel," "Diamond" "Dexter,"
"Segment-Ground," "Diamond Point,"
"Moss-Back," "Victor," "Rex."

ATKINS' TUTTLE TOOTH. INDIANAPOLIS, IND

The Matchless Mop Wringer Co.,

Canton, Ohio.

A mop, wringer and pail at a price that will sell.

See current price list for the trade.

Discounts to Jobbers.

Send for Circular.



"DAILY FEEL THE BENEFIT."

Energy Mfg. Co., Philadelphia, Pa. [Dumb-waiters]: We daily feel the benefit of our card in your columns.

"New Idea" Halter Chains also SNAPS.

See that Steel Snap (Rear Bolt.)
They are Safe! They are Sellers!

(Sheet Steel) For Harness, Rope or Chain.



. . . SEND FOR PRICES ON . . .
Cow Ties, Picket Chains, Coil Chains, Dog Chains, Etc., Etc.

IRA F. WHITE & SON, 76-78 Park Place, New York.

FRANK W. GILBERT, Prest. O. C. EDWARDS, Treas.

Crescent Emery Mills Co.

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EMERY & ABRASIVE MATERIALS.

EMERY WHEELS.
GRINDING MACHINERY.

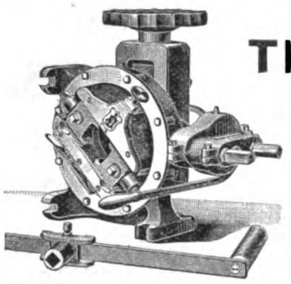
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Your Stock Is Not Complete

Without a line of

The ARMSTRONG



New No. 0. Threading Machine.

PIPE THREADING AND CUTTING OFF MACHINES, ADJUSTABLE STOCKS and DIES, WRENCHES, PIPE VISES, PIPE CUTTERS, CLAMP DOGS.

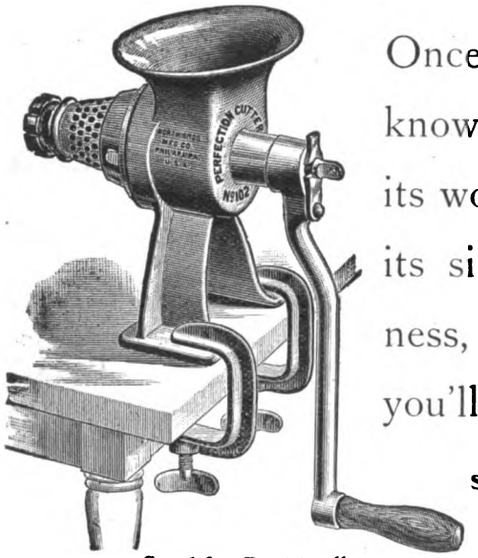
THEY ARE ALL "STANDARDS" AND NEV DISAPPOINT. CATALOGUE!



The Armstrong Mfg. Co., Bridgeport, Conn.

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NEW PERFECTION CUTTER



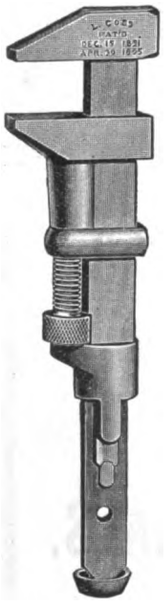
Once you see it work and know half of its capabilities, its wonderful convenience, its simplicity and cleanliness, its easy working, you'll buy it fast enough---

SOLD BY LEADING JOBBERS.

Send for Booklet "About New Perfection Cutter" to

NORTH BROS. MFG. CO.,

New York Agents, John H. Graham & Co., 113 Chambers St. PHILADELPHIA, PA.



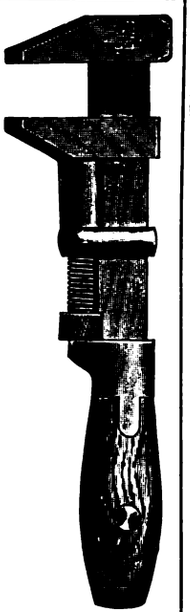
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Genuine Improved

KNIFE HANDLE

PATENT

Screw Wrenches.



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COES WRENCH CO.,

WORCESTER, MASS.

Established in 1839. Registered April 9, 1895.

Patented Dec. 15 1891. Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞ Straight Bar, Extra Long Nut for Screw in Jaw. ☜

The BEST MADE and STRONGEST WRENCH in the MARKET.

J. C. McCARTY & CO.
JOHN H. GRAHAM & CO. } New York Agents.

In Our Line of Elevators & Hoists



We have a Hand Elevator especially adapted for use in stores, warehouses, etc., and we are sole manufacturers of

The Philadelphia Dumbwaiter.

Send for catalogue. . .

Energy Manufacturing Co.,

411 Cherry Street, PHILADELPHIA, PA.

The Columbia Safety Self-Retaining

DUMB WAITERS,

ELEVATORS,

Cellar Lifts

...AND...

SPEIDEL'S ECONOMIC SAFETY HOISTS.



If you haven't tried the Columbia Dumb Waiters give them a trial. It will cost you nothing, as you can return them if not satisfactory.

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J. G. SPEIDEL, Patentee and mfr., **Reading, Pa.**

Improved Quick and Easy Rising Steam, Electric and Hand Power

ELEVATORS



Send for Circulars.

Kimball Bros, Council Bluffs, Ia.

No. 1013 Ninth Street.

Dumb Waiters.....

that don't keep you waiting.

Simple; smooth-running; noiseless. All sizes, capacities and styles. Hardware dealers can sell them.

THE STORM MFG. CO., Send for catalogue. NEWARK, N. J.

WILL CONTINUE TO USE HARDWARE.

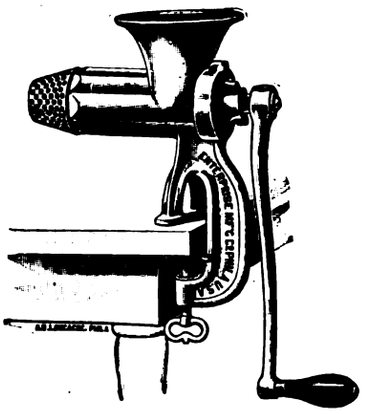
Monarch Cycle Mfg. Co., Chicago, Ill. [*Bicycles*]: We used HARDWARE last year quite extensively, and as soon as we have our arrangements completed for next season's business, we will continue to use your publication to reach the Hardware trade. We have no hesitation in saying that HARDWARE is one of the best mediums of its class, and the services rendered us by your publication have been entirely satisfactory.

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ENTERPRISE
MEAT CHOPPERS

TINNED

OUR NEW MODEL



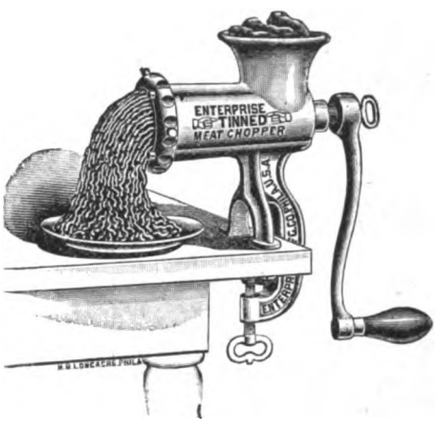
New Model

No. 2,	Clamps to table,	$1.75
No. 4,	" "	2.25
No. 6,	" "	2.75
No. 8,	" "	4.00

Standard Model

No. 5,	Clamps to table,	$2.00
No. 10,	" "	3.00
No. 20,	" "	5.00
No. 12,	Screws to table,	2.50
No. 22,	" "	4.00
No. 32,	" "	6.00

OUR STANDARD MODEL

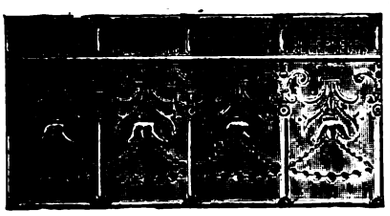


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Descriptive Catalogue Free

THE ENTERPRISE MFG. CO. OF PA., Philadelphia, Pa., U. S. A.

New York Branch, J. C. McCARTY & Co., 10 Warren Street



The Canton Steel Roofing Co., Canton, Ohio.

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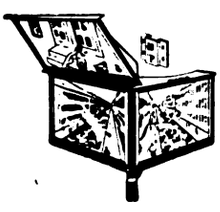
STAMPED CEILINGS,

AND ALL KINDS OF

Sheet Metal Goods for Buildings,

Iron Shutters and Doors, Roof Paints, etc.

Best construction, quality and workmanship guaranteed.



WINDOW MIRRORS

Enables a person to see up and down the street, eight to ten blocks, and who's on the door step. Can be attached to any house. . . .

THE BEST MADE, "THE PERFECTION."

We want live agents in every town in the United States and Canada. . . . Write us

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RESERVOIR PUNCH

For Euchre and Whist Parties.

This Pocket catches the pieces punched from Tally Cards, thus preventing a littering of the carpet.
Is hinged, can be opened, emptied and closed in an instant.
Of great value to Railroads as it prevents the replacing of pieces punched out of monthly or commutation tickets.
Also valuable in Restaurants where punch tickets are used.

PATENT APPLIED FOR.

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SKYLIGHTS HAYES (METALLIC) LATHING &c
71-8TH AVE. NEW YORK.
FIRE-PROOF CONSTRUCTION

You take no risk on the quality. We make only the best!

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BAEDER, ADAMSON & Co.
MANUFACTURERS OF
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SAND PAPER. EMERY PAPER.
EMERY CLOTH
CURLED HAIR.
FOUNDED 1828.
NEW YORK. CHICAGO.
BOSTON PHILADELPHIA.

Sand Papers IN **Reams and Rolls**
- Flint Paper
- Garnet Paper
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HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

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67 BEEKMAN STREET, NEW YORK
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The Arcade File Works

Established 1842.

WEED'S IMPROVED CUT — GUARANTEE SEAL — ALL FILES ARE FULLY GUARANTEED — SPECIAL TEMPER

Improved Increment Cut

THE BEST IN THE WORLD.

ANDERSON, IND.

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ALLERTON, CLARKE CO., Agents,

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The DANDY SINK CLEANER.

. . . A perfect and complete



Household Specialty.

A Sink Cleaner and Shovel Combined. . .

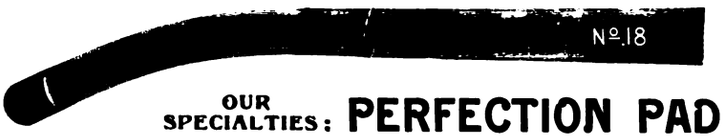
Tidy housekeepers will throw away the dirty sink broom and buy the Dandy Sink Cleaner on Sight. . . . . .

TRY IT AND BE CONVINCED.

For sale by all Wholesale Hardware Dealers, and by the patentee and manufacturer,

John W. Sudlow, 986 HALSEY STREET, BROOKLYN, N. Y.

AMES SWORD CO., Chicopee, Mass.



OUR SPECIALTIES: PERFECTION PADLOCKS,

All sizes, ½ inch to 2½ inches.

PROTECTOR REVOLVERS, THE GREATEST NOVELTY OF THE AGE.

Compressed Seam Fork Sides and Handle Bars. CORRESPONDENCE SOLICITED.

U. S. CLUB SKATES

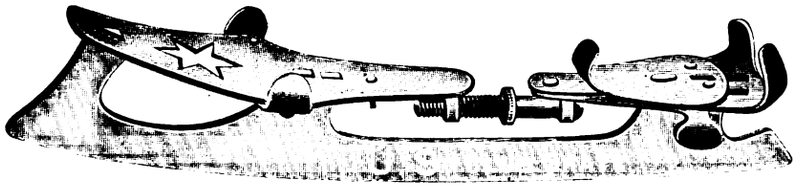
For Season of 1897 and 1898.

Manufactured by P. Lowentraut.

"U. S." LADIES CLUB SKATE.



"U. S." CLUB SKATE.



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THE MUTUAL LIFE BUILDING,
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Safes $5.00 per Annum and Upwards.

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The Mutual Life Insurance Company

OF NEW YORK,

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

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And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

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Trilby Design

(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,

Inside, and Sliding Door

Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of **Builders' Hardware,**

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

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CHICAGO, 36 Dearborn St.
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PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted] and TWENTY-FIVE CARBON Steel will last only so long [redacted]

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory corroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

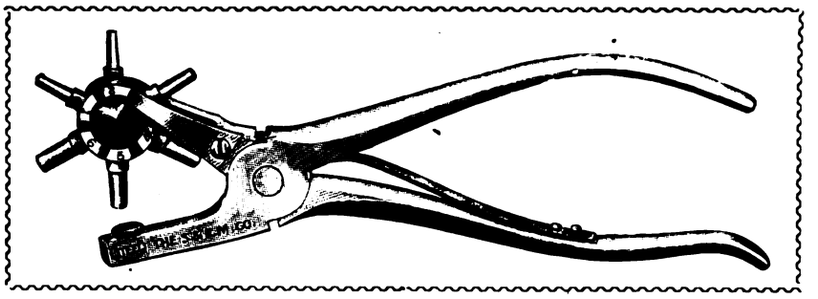
The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.

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NEW CATALOGUE

. . . NOW READY . . .



Hardware
Plumbers'
Bicycle
} Specialties.

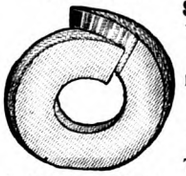
The Smith & Egge Mfg. Co.,

Bridgeport, Conn.,

U. S. A.

Mention "HARDWARE."

TRADE MARK.



GOULD'S
STEAM & WATER PACKING

Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
THE GOULD PACKING CO.,
A. CHIPMAN, Treas. EAST CAMBRIDGE, MASS.

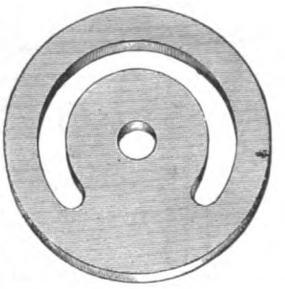
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TAKE AN AGENCY FOR THE
Royal Polished Steel Roaster and Baking Pan.



Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel,* in 7 sizes, including *inside pans* and *grate bars* in all sizes. *Bakes finest bread.*
For terms, address
THE ROYAL POLISHED STEEL ROASTER CO., Troy, O., U. S. A.

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Kendrick Valve and Washer Co.

Valve and Plunger Leathers.
. Special Valves to Order . .
Special Leather Washers.
Tubular Well Cups. Iron and Brass Cylinder Cups.
Oil Well Valve Cups. Elevator Cups.
Special Cups to Order.

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HARDWARE

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JAMES H. KENNEDY, Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRANK REIFSNIDER, - Western Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

While the dealers East in many cases feel as though trade in general does not equal their sanguine expectations, reports from the West are still of the most favorable character. The Western farmers having harvested their products, are preparing at once for the many improvements for next year, which the possession of some surplus cash undoubtedly inspires. In the South the prospects are at present clouded by a continuance of the yellow fever, which prevails in several localities, awaiting the coming of cooler weather before entirely disappearing.

The drought which has had an injurious effect on trade during the past few weeks has exerted some influence in suspending orders for current requirements, but the changes noted in the past week have lessened fears of a longer continuance, and the weather is gradually becoming of a more seasonable kind.

Goods demanded by the needs of colder and more wintry weather are still being ordered by the jobbers, and the prospects for the continuation of a good trade up to and through the holidays are very noticeable where good crops provide the stimulus. It is so natural for the retail Hardware trade to delay almost until the last moment to order supplies known to be necessary for the wants of the fall and winter, that it is not surprising to find orders are delayed this season as usual through this unwise method. Prices in general keep up fairly well, and while the disposition to advance quotations is manifested in almost every branch of the industry, still a conservative feeling prevails that slow and sure minor advances, if sustained, would prove of greater benefit to the business than more pronounced changes which might, perhaps, necessitate later revision to encourage orders.

A great many important lines of goods are not in full and abundant supply, and difficulty is experienced in obtaining sufficient for present delivery of a number of items in iron and steel; wire nails, in small sizes, especially, many gauges of steel wire rods being only in limited supply. Still the volume of business, take it all in all, is so much more satisfactory than it has been for several previous fall seasons, that satisfactory comparisons can always be anticipated to the great advantage of this year's business. With the advent of the settled weather now rapidly approaching, a steady trade may be looked for that will prove as profitable as inspiring.

Are We to Have Local Cycle Shows?

The decision of the National Cycle Board of Trade, by which they vetoed the holding of bicycle shows, begins to bear heavily now upon the desires and future wishes of many of the manufacturers and nearly all the dealers in bicycles. The wheeling multitude are inclined to favor cycle shows, as the large attendance at the last one would amply demonstrate; but the larger manufacturers, especially those compelled by competition to have their own stores in all the leading cities, are unfavorably inclined toward any annual combined exhibition. It usually has a tendency to make some small manufacturer assume an importance not justified by their manufacturing facilities or incorporated capital.

There is little doubt that the dealers in the principal cities will combine before long and exert an influence that will bring some change of front on the part of the makers. Committees have already been appointed in New York and Brooklyn to discuss the advisability of conducting a Dealers' Cycle Exhibition if no other is obtainable. Resolutions have been passed urging the Cycle Dealers' Association of the United States, with the co-operation of the National Cycle Board of Trade, to assume control of local cycle shows, and aid and abet in their opening and continuance. It is believed this will meet the approval of many manufacturers who are not on the whole opposed to local efforts, but object only to the grand annual splurge which has become too expensive and unproductive of sales, for the furtherance of which they were instituted.

The 1898 Exhibition of Our Manufactures.

The citizens of Philadelphia have invariably given to enterprises designed to advance the material interests of the city or State a liberal and well organized support, founded on a proper public spirit and well worthy of national commendation.

A number of meetings have been held recently in that city with the avowed purpose of pushing to completion an exhibition of manufactures to be held in Philadelphia in October, 1898. This desirable movement, although originating among the vested authorities of the Philadelphia museums, will be held under the auspices of the Franklin Institute as well.

The proposition now being agitated, is to hold the exhibition on the grounds donated to the museums by the city of Philadelphia, upon which a suitable building for the purpose is to be erected, of sufficient importance to become afterward a permanent part of the collection of buildings already proposed to be erected for museum extension.

It is desired that with the opening of this exhibition

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of the manufactures of the country, the international advisory board of the Philadelphia museums shall be held, which, as was the case last June, might possibly bring delegates from all parts of the world. Should this prove to be the case, and the city receive in addition a large number of visitors from other countries as our own, no doubt need be entertained of the abundant success that could be achieved by the present concert of action.

The Big Strike in Great Britain.

Among the many strikes which in various parts of the world are unsettling conditions of labor, while prostrating entire industries, one of the most important is that now raging in Great Britain, between the federation of employers and their mechanical engineers. This struggle has proceeded resolutely, and as the state of affairs became more and more acute, the bitterness engendered by the contentious strife has embroiled 70,000 workmen into a state of idleness. The losses of these mechanics by abstention from labor, reaches the sum of $4,000,000, with a prospect, if much longer continued, to reach double the amount Under circumstances extending over so large a period of time, whole lines of business become stagnated and subject to a great loss of trade, which flies to other countries in many cases, making it very difficult to reclaim after becoming established under changed conditions.

A bitterness between employer and employed almost fatal to the advancing interests of favored workmen, is naturally the result as affecting the leaders, and the healthy treasuries of prosperous unions are bankrupted under the continued exactions needed for the support of the strikers; appeals are even made to Unions in the United States for support, under the pretext that the principal point of the differences underlying the strike is to compel the granting of a day of eight hours. That this principle only is involved is an opinion not shared by the employers which, in an extract from the *London Times*, which we publish in another column, shows the questions at issue are more far reaching than would be supposed. Without further waste of wages, and the jeapardizing of the best interests of all concerned, wiser counsels should prevail, and a board of arbitration settle these unwise differences.

To Sell or Not To Sell.

Editor Hardware: The selling of the goods: this is the heart and core of all merchandising. With the skill brought into play in this connection, lies the success or failure of the merchant.

He must never forget that the sole aim and object of his business life is to sell goods, and to sell them at an advance sufficiently large to ensure him a profit beyond the expense incurred in the transaction, and to get his pay for them after they are sold.

In discussing this question, we will first have something to say about

WHOM TO SELL.

There are people to whom it is especially desirable to sell: Those who pay the cash, who know what they want, who do not ask frivolous questions, and who do not dispute the price. These are the people whom every tradesman is anxious shall visit him often. They are always treated well by him and urged to buy more, but they cannot be induced to buy largely. The only trouble with them is that he cannot sell them enough; but they know just what they want, and no amount of persuasion can induce them to purchase more. The question of selling them need not be considered, as they are always welcome.

Next to the cash customer we might name the one who pays promptly. He may need quite extensive credit, but he is reliable and can be depended upon when he agrees to settle. You do not have to send your collector to him but once, as he always keeps his word. In one respect he is like our former friend, he cannot be overloaded with our wares. He only buys what he actually requires.

The question of risk is never considered when selling these persons, but there are many would-be buyers who do not belong to this desirable class. There are many where the advisability of trusting them with our goods must be considered.

The man with limited means whom we know has little property may ask for credit, and the question must be decided: Shall we sell or not?

If the man has a good reputation for honesty and sobriety, and has steady employment, we can afford to try him. Let a distinct understanding be made at the time of sale when the goods are to be paid for. If he fulfils his promise we can safely trust him again. A man may be poor and his financial condition such that a bill could not be collected by law, yet he may be one of the most desirable of customers. He pays good prices, he does not buy extravagantly, and is prompt in meeting his engagements. Use such a customer well, endeavor to keep him satisfied, but do not attempt to overload him with more than his reasonable demands, and you have a desirable account which will pay you well. His good will will also be shown by bringing you other trade.

WHOM NOT TO SELL.

This is often a difficult matter to decide. The merchant is anxious to make sales, but he must not take too much risk in crediting unknown and untried customers.

A few losses materially lessen the net profits and the aim must be to lose as little as possible in bad debts.

It is generally a safe rule to refuse credit to any one whose personal property is covered by a bill of sale or chattel mortgage. The mere fact that they have given security on their effects goes to show they so far have not been successful financially, and when you sell them goods you are placing your property where you cannot recover by any process of law, as the party holding the security may at any time take over the goods. But there are a few people why are able to pay and are financially responsible, but they have an unsavory reputation in regard to settlements.

A retailer recently told me that a man owed him a small bill of a few dollars but he had repeatedly sent his collector with no result and he was compelled to sue him. This man was in receipt of an income of about one hundred dollars a month yet he never paid any bill which he could avoid. When such persons are known they should be refused credit.

It is also unwise to credit a man with a reputation for dishonesty.

If you are satisfied of the correctness of the rumor you had better err on the safe side.

This doing business is a matter of faith. We must take risks, but let judgment and knowledge of the conditions that prevail decide to whom we shall sell.

If no information can be gained from outside sources, the asker for credit should make a written statement of his condition, at your dictation. This will enable you to gain a fair knowledge, and by his appearance and apparent candor a fair conclusion may be drawn whether he is entitled to your credit. LYLE MERTON.

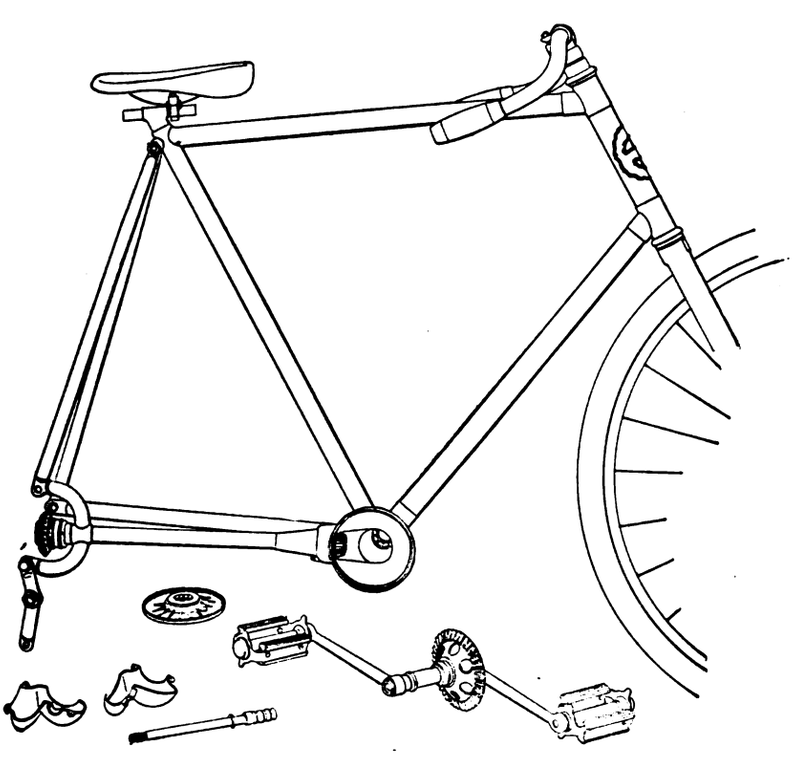
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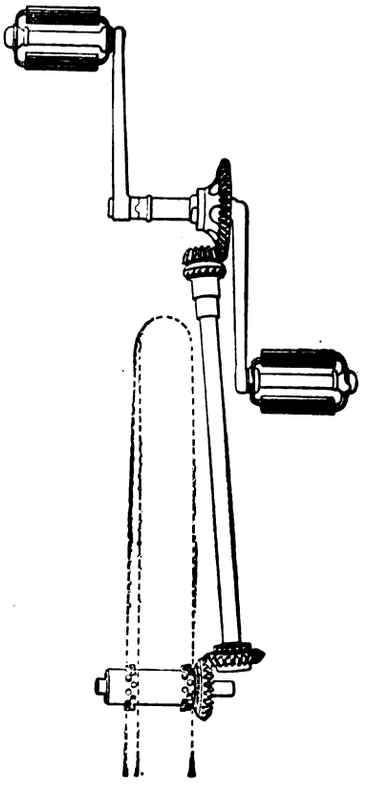
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The Columbia Chainless Cycle.

At last we have before us as an accomplished fact, the long-looked-for chainless bicycle, which is marketed under auspices that promise a future certain to be sustained. It predicates a long life, backed by such elements of successful effort as will make its advent in the trade form an epoch of unmistakable significance.

The Pope Mfg. Co., Hartford, Conn., have created this perfect product, and to them the cycle industry is already indebted for many of the skilled devices and superiority of construction that have made an American cycle the standard of merit in every progressive country on the globe. This company, since seeing the ultimate necessity for a cycle constructed by such methods, have succeeded in gaining, and to-day control, all the important patents governing bevel gear appliances considered essential in creating this model machine. It is altogether likely that several other companies possessing ample plant facilities will, in 1898, be found making chainless wheels in connection with their other output, but working under the base patents controlled by the Pope Mfg. Co.





The wheel as exhibited is much neater in appearance than the old style chain model, offering as it does, no teeth or other undesirable projections to cause annoyance. The crank hanger is dropped, as in the chain wheels, and the lines are identical with the ordinary chain model, except in the lower right rear fork and stay, which are shortened and connected with a semi-circular arm, the center of which supports the lower right stay, which is also the covering of the driving shaft connecting the two gears. The end of the rear axle is held in a swinging arm that is fastened to the ends of this semi-circular piece and in the open space left by the arch, the rear gear revolves.

The driving wheel takes identically the place of the old front sprocket, but owing to the fact that its depth must be greater, the tread of the wheel is increased to 5¼ inches. The crank and crank axle are similar in construction to those used in the chain wheel, and the whole is easily taken apart and assembled. The power is transmitted, and the great danger of the driving shaft being twisted out of alignment with the gears is greatly reduced if not done away with by the device at the rear axle. The machine moves backward or forward with equal ease and apparently there is no bind whatever. The claim is made that where the old style sprocket and chain become badly worn with frequent use, the new gear actually improves with age, running more smoothly at the end of a couple of months' use than when new. The working parts are all protected from rain and dust by little detachable gear cases and are always lubricated. The whole makes no more noise than the best kept chain machine. Every motion is positive and there is no back lash as in a slack chain, and for this reason the machine should be the easier controlled when on a grade.

The construction of this advanced type of bicycle has been kept a profound secret for a number of months, the present wheel being the culmination of much experiment and research on the part of Colonel A. A. Pope, the pioneer of the cycle industry in this country. Colonel Pope investigated all of the chainless models used abroad, especially the Acatene of France, the most perfect chainless wheel produced np to this time. He bought up one by one the most valuable patents covering the b evel gear device in this country, and has for the past three years maintained a factory where the most exhaustive experiments on the new style of gear have been carried, on just as he is still working on the motor carriage.

Colonel Pope says he long ago became convinced of the superiority of the new device and set about perfecting machinery for its manufacture in marketable quantities, always the most serious drawback to the bevel gear.

Some mechanics even declared that these gears (although admittedly superior when cut by hand) could not be perfectly made by machinery, but the Pope Co. claims to have disproved this. They have made a large number of wheels and show their confidence in them by offering them for immediate delivery, months in advance of the '98 season, when a few failures would ruin the reputation of the wheel.

The riding public requires no dissertation as to the mode of transmission of power as arranged in the new wheels. But one point is of the utmost interest—the price.

The new wheels will be made in ladies' and gentlemen's models, diamond and drop frames, each of which will sell at what will probably be the standard price of all high grade chainless wheels for 1898—$125.

HARDWARE costs only One Dollar a year.

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Hardware Topics and Notes.

Editor Hardware: Movements out of this centre are fully 20 per cent. better than at this time last year, and in almost every branch and department denote a fuller demand than the autumnal seasons of the past four years show. At the present ratio of increase, the windup of the year will be phenomenal. There is no reason why the increase should not obtain, for the reports from the country districts correspond with the heralded prosperity among the farmers. Great activity is still characterizing builders,' plumbers' and structural Hardware. This is due to the building season opening late. The first report of dollar wheat, and a general cereal boom, seem to have brought on a building fever, that bids fair to engage capital for some time to come. This phase of activity is in itself a guaranty for the stability of the industrial revival and returning confidence. With the termination of the coal strike, a simultaneous disappearance of the retarding features of the market was at once noticeable. The carrying capacity of every railroad is overtaxed, and navigation on the great lakes was never more active. There is no mistaking these signs. They are no longer wild and irregular. The demand is no longer spasmodic, and the market subject to fits and starts. Normal conditions are rehabilitating themselves. Normal conditions are what we need. Other matters will take care of themselves.

But, are the merchants satisfied? Not generally. At places to which "crop money" has not as yet penetrated the demand has not been as voluminous as, for instance, at Kansas City or other wheat belt centres. By comparing notes the travelers have figured out a phenomenon, and in some quarters there is in consequence a feeling of insecurity. This is all wrong, however, for prosperity, like all large bodies, moves slow. We may live in an electric age, but such quantities as demand and supply have not as yet been subjugated to its influence.

THE OHIO TRADE IS ALL RIGHT

at this writing. At Cincinnati, which operates largely in the South, the quarantines are somewhat delaying movements, but, as the check is only temporary, there can be no serious consequences.

The happiest branches of the trade are probably the agricultural implement interests, and there is also signal revival among the buggy and carriage trade. This is of immeasurable importance to the manufacturers and dealers in these lines, when we consider that for the past four years this trade has been almost at a standstill, and, besides, the dealers had to carry 75 per cent. of the farmers to whom they had sold.

THE CYCLE OUTLOOK.

The outlook for next season's cycle trade is described as quite encouraging. Prices may rule somewhat lower, but they will be satisfactory if the important factors will succeed in restricting the manufacture of trashy wheels. A good wheel at a popular price, and a model that will not go out of date with every season, will be the aim of manufacturers who are not in the business for temporary exploit only. Investments going into cycle specialties and parts would prove that the cycle industry is entering upon a season of the broadest exploit.

HOUSEFURNISHING LINES

are very active. Leading dealers have advised me that more young people are going into housekeeping than at any time within a scope of experience of twenty years, and what is more, less credit is asked than ever before.

The stove season is at hand, but the mild October weather is not helping it. Yet the demand has not been below the average. Every dealer carries a stock at least one-third larger than last season, and but few doubt their ability of cleaning up at good normal prices. The wide introduction of steam heat into modern American homes, and the growing popularity of gas stoves, has naturally a tendency to decrease the demand for other fuel stoves, but just where this decrease figures in has not as yet been discovered by the dealers, which goes to show that the influx from new sources must at least be adequate to the natural slump.

Many stoves sell by reputation. But most makes are obscure. The public knows little or nothing about them, and must rely solely on the recommendation of the dealer or their own judgment. But judgment of stoves is often very fallacious at best, and in default of the maker's guaranty amounts to practically nothing. Here's where the dealer's strong points of salesmanship come in. Appearances "go a great ways," even in stoves, and the first impression generally determines the buyer. Said a veteran stove specialist: "I always rejoice at the advent of the stove season. Then my forte comes to recognition. As you see, one of my stove windows was especially constructed for the exhibition of stoves. But a mere 'inanimate' stove exhibition is not apt to attract passers-by. I have therefore arranged a family of stoves in a semi-circle about a grate as the centre attraction, and during business hours these stoves are kept alive with the fuel to which they are adapted. When I get a prospective buyer in hand, I have no trouble in explaining the characteristics of the several stoves I handle, and the time I save thereby is alone worth the trouble and expense entailed in the maintenance of the stove fire exhibition. I find that this mode of stove advertising is only second to the very best of newspaper advertising and shrewd personal solicitation, as regards value and results." J. B. Rindfleisch.

Cleveland, Ohio, Oct. 20, 1897.

Reduction of Lead Ores.

A new method of smelting galena has been suggested, which consists of first treating the ore in an open-hearth blast furnace and collecting the lead fume, containing a large percentage of lead sulphide, driven off therefrom, treating the metal-bearing slag of the open-hearth furnace and the fume in a stack furnace in which the temperature at the top of the furnace is maintained at so low a point as to prevent the oxidation of the lead sulphide fume generated in the furnace, and subsequently collecting the fume, containing a large percentage of lead sulphide, drawn off from the stack furnace, and smelting it in the same furnace, together with the slag from the open-hearth furnace. The results obtained from this process are said to have been satisfactory.—*Exchange.*

Zinc "Grey."

The use of zinc dust, or zinc grey, is steadily increasing through new applications, and merchants on the Continent, where the principal markets are to be found, are often unable to meet the demand. One of the newest uses for the substance is in the manufacture of zinc ethyl, for which it has been found to answer better than the zinc shavings formerly employed. For this purposes the zinc dust is first heated in hydrogen gas to reduce the oxide with which it is always contaminated. Another new application of zinc dust is in the refining of hydrocarbon oils. Little, if any, zinc dust is marketed by American spelter makers, the domestic consumption being supplied chiefly by importations from Germany.—*Exchange.*

A recent communication from Consul J C. Monaghan, written at Chemnitz, with regard to Prussia's railroad earnings, states that more than half Prussia's income is derived from the railroads.

The plant of the Cohoes Axe Mfg. Co., Cohoes, N. Y., located near the southern city line, has been burned. Loss, $7500; no insurance.

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ASTOR, LENOX AND TILDEN FOUNDATIONS

THE PRIMITIVE DAYS OF DRUMMING.

Many an interesting little sketch might be written regarding the traveling done by the commercial traveler of the past up in the far-off regions of Lake Superior, where, in the early days to which my mind reverts, there was a large amount of adventure surrounding every dollar of business.

On one of my trips up in that locality when I was representing the old house of Hoyt, Busick & Co., I enjoyed more than my usual success, the season being one extremely favorable for trade. I stopped off at Marquette, and among a lot of other things sold Ben Niedhardt enough looking glasses to stock a car load. A more surprised man than Ben. was when he got them it would have been hard work to find between Marquette and Escanaba.

I think that was the trip I sold Ed. Breiting, of the old Pioneer Iron Co., enough files to run his mechanical department for five years to come. Of course I didn't know it at the time, but he surely was a free and easy buyer and knew how to stock up. This was about the time when some of the older heads in Portage Lake and Eagle River were casting sheep's eyes toward Duluth, believing it would be the Upper Lake city of the future. Ontonagon, Houghton and similar points, formerly so prominent, were becoming extremely dull and slow, copper mining having suffered a relapse. I extended my trip as far as Duluth, but found it well stocked with the overplus which the stores down the lake, such as Ed. Holland's, and Northrup & Butler's, found no use for, but thought to dispose of by moving. The place gave no sign of its present importance, when it probably figures a population of nearly 40,000. I only wish I had bought a few corner lots at that time and been able to hold them.

On my way down from Duluth I thought I would stop off at Bayfield and make a short cut across the country to St. Croix Falls on St. Croix River, which was a distance of 90 or 100 miles, feeling after I reached there I might sell one of those $1000 bills which was the height of my ambition. After finishing what business I could at Bayfield, and Lapointe near by, I prospected for some conveyance to take me across country. I found the trip was a hazardous undertaking in more ways than one. There was no regular post road as I had imagined, it was nothing but a trail, and a trail that continued the same in dimensions and importance for the whole distance, which was through an elegant stretch of woods all the way. I learned that the mail was carried over once a week on a two-wheeled buckboard, which was hauled by an ancient mule that still had some go in him, but was more noted for lasting and time-serving qualities, than any phenomenal bursts of speed.

I hunted up the driver of the "mail wagon," and found that the white French Canadian whose hardy hands usually guided the reins was replaced for that week by a half breed Indian who was his understudy, or substitute, when occasion demanded. He had no organized schedule of rates, but said he would carry me over if I so desired, providing I would fill a whiskey jug he carried, and which held about two or three quarts. My knowledge of whiskey has always been very limited in its character, so I hunted around town to see how cheap I could get that jug loaded, and finally compromised at a dollar. I was satisfied the trip bid fair to be an inexpensive one at that rate, and if I could only take that looked-for good order it would be a fine day's work.

About four o'clock in the afternoon he was ready, and stowing the jug carefully amidships, where the risk was slight, away we started. We rode like the very old boy over that trail and through those dense woods. The mule seemingly was more familiar than the driver with the lay of the land. As the darkness fell around us in big solid blocks of opaqueness, I began to feel a little skittish, and almost wished I hadn't trusted myself to the tender mercies of this reckless semi-barbarian, especially as I now dimly remembered having been advised by one of the storekeepers in Bayfield not to take the chances. He said this half-breed had killed a man he took over with him on some previous trip, and as my informant put it, he "wouldn't take the trip with such a pilot for $500."

I began to speculate upon what kind of hotel we should find at the nearest settlement, and while cogitating upon this possible variation in the prevailing monotony, I looked ahead and saw a big, bright, blazing fire in a cleared space, that promised to infuse a little warmth in an atmosphere invariably clear and cold after nightfall.

As we drew up to the center of interest that so warmly welcomed us, imagine my feelings when I saw six big buck Indians stretched out in all their stalwart proportions, with their feet to the fire, evidently settled to spend the night; each one reclining on his roll of birch bark, which forms the spring mattress of the children of the forest.

It wouldn't be difficult to guess my surprise when my guide informed me this was as far as he intended to travel that night, and that we might as well make ourselves as comfortable as the circumstances would permit. So we unhitched our mule, took off the harness, and let him run. The half breed selected a piece of bark for each of us, and with my grip full of samples under my head for a pillow, I lay down between the bucks and finally was in the land of dreams.

I remember among the many things I had in my mind while reclining amid such picturesque surroundings, I thought of every particular murder and hair-breadth escape for which the Lake Country had been noted for years. My conscience pricked me for buying the poorest whiskey I could find; I felt that if any of my copper-colored friends imbibed it, my passports would be vised to the happy hunting grounds with the most approved dispatch; but I finally slept the sleep of the just, dreaming of the big bills which the dealer is always going to buy "the next time you come around."

I woke up about midnight feeling too cool for comfort. The half breed and whole breeds were sleeping away enjoyably, the fire was getting low, so I got some dry wood and rails which I piled up on the smouldering embers, and soon had the satisfaction of feeling warm again. Everyone was astir at four in the morning, and we fraternized in a civilized manner, the Indians being as sociable as though they had become acquainted with the jug of jag water, and they probably had, for the half breed had no wish to be inhospitable.

Well, off we started, and we rode just as fast as the mule could jump, till about noon, when we came to an open place in the woods, where my driver desired I should hold the reins over the mule, while he went up in the woods to do some trading with the squaws, who he said were picking berries in the neighborhood; I couldn't imagine how he knew, until on looking around, I saw about a dozen papooses reclining gracefully against as many trees, each of them strapped safely and soundly to a piece of bark or board, and looking as comical and quiet as a six-day kitten. I thought then how much better that was,

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than the highly civilized way of bringing them up by the aid of a milesian child's nurse, who probably shook the daylight out of them every time they tuned up their pipes and squawked.

In about an hour my half breed came back, having in his possession a superb black bear skin, and lots of huckleberries, which he had speculated for with a little sugar, a little tea and about half of the whiskey he had left.

Well, to cut this sketch of primitive commercial traveling short, we got into St. Croix Falls about 10 o'clock that night, and taking everything into consideration, I was thankful when I got into my more civilized bed that I still had a scalp to comb when morning dawned. I was made doubly happy by selling a bill of goods that footed up $1200, but you can bet I didn't return by way of the woods. I went over to St. Paul and came down the Father of Waters.

HENRY T. WAKEMAN.

Camel-Hair Belting.

Among the several products of the Rossendale-Reddaway Belting & Hose Co., Newark, N. J., the most important, and for which they are noted, is the Camel-Hair Belting.

It is a surprising, but nevertheless an incontrovertible fact, that while an immense amount of attention is constantly being given to the economical generation of power, but scant regard has hitherto been paid to its economical transmission from the prime motor to the machinery it is required to drive. It is, however, now beginning to be understood that, in the majority of power plants, much greater working economy is to be effected by increasing the efficiency of the means of transmitting power, rather than by the slightly improved economy of generation which may be obtained by the use of very high-pressure steam and quadruple-expansion engines, the economy of generation with these high-pressures being often counterbalanced by the greater cost of maintenance and risk of breakdowns inherent to the excessive pressure.

In this connection it is probably not too much to say that in the transmission of power by belting, greater opportunity is afforded for effecting economy than in any other direction. The reason is not far to seek. In no other system of transmission is so little regard paid to the underlying principles, nor so much left to the tender mercies of the ofttimes ignorant attendant, as in belt-driving. Unfortunately, moreover, carelessness on the part of those who plan the driving arrangements is, to a very large extent, the cause of much of the trouble in working which is subsequently experienced, and which a little forethought might easily have obviated. The fact cannot be too strongly emphasized that badly designed belt-gearing is a perpetual source of loss and annoyance, involving, as it does, waste of power in transmission, frequent and often costly renewals, labor and loss of time.

In the belief that practical information, based upon long experience and special investigations, would be of service to the users and designers of belt-gearing, the following hints and suggestions on belting and belt driving have been prepared, which is commended to the notice of all who are interested in this method of power transmission.

The primary agent in belt-driving is friction. It follows, therefore, that for efficiency of transmission the belting employed should be of such a nature that the coefficient of friction between its surface and that of the pulleys upon which it runs should be sufficiently high to ensure a good frictional grip of the pulley being obtained without requiring the belt to be unduly tight. Probably a greater waste of power is traceable to the employment of unnecessarily tight belts than to any other cause. It is well to observe, therefore, that any excess of belt tension, over and above that necessary to prevent slipping when starting under the load, directly causes waste of power by increasing journal friction—power not only lost, be it noted, but lost in more rapidly wearing out the plant. The bending stresses caused by the unnecessary tension of the belts are also liable to spring the shafts out of their true line and ultimately to break them. It being recognized that a good frictional grip of the pulleys is of prime importance, the careful power user will naturally select a belt which is undoubtedly satisfactory in this respect. The Camel Brand or Reddaway Belt has not only a high coefficient of friction, but, as it is exceedingly pliable, it lies close to the surface of the pulley, thus ensuring a perfect grip being obtained.

The rule of thumb has been the practice in the majority of cases but for the purpose of demonstrating to the user the actual power of frictional grip of the Rossendale-Reddaway Belting, under the direction of Charles Hopkinson, M. Inst. C. E., M. Inst. M. E, B. Sc., who designed the very elaborate and perfect machine, a testing apparatus was erected enabling him to accurately ascertain the driving power of any belt up to 50 I. H. P.

By the results of the tests, which were highly favorable to the Camel-Hair Belting, it was shown that not only has it a high coefficient of friction, but the tensile strength is so great that it is possible to reduce the thickness to 5-16 inch, as against double leather belting averaging ½ inch, thus rendering the belt exceedingly pliable, and causing it to lie close to the pulley face; a most intimate contact is thus ensured resulting in a powerful frictional grip being obtained.

Electric Light for the Necktie.

One of the latest and most interesting novelties of the age, is an electric light for the necktie. It consists of a small incandescent lamp mounted on a scarf-pin, and connected by fine wire with a pocket battery and a push button, which enables the wearer to illuminate the lamp at will, producing an elegant and brilliant effect. The outfit is durable, and will last for years, and its low price, $1.50, has made it popular among young and even the older men who care to adorn their person with something novel or elegant. An idea of the wonderful progress in electrical science is well demonstrated in the perfection of this necktie light. But a few years ago it was considered wonderful when an electric light of any efficiency was produced, even by costly and cumbersome machinery; now we use it to adorn the person and generate electricity in the vest pocket by an instrument cheaper and as reliable as a watch. These scarf-pin lights can be obtained in any color or clear crystal, also in opal, which appears like a "ball of fire," and gives the best effect. We are indebted to the Ohio Electric Works, of Cleveland, Ohio, for the latest of novelties, and their catalogue may be obtained by simply sending your address.

High Grade Bissell Sweepers in Mahogany.

The Bissell Carpet Sweeper Co. announce to the trade that in future they will furnish their high grade exclusive sweepers in cyco bearings, nickel finishes, in solid mahogany, piano finish, at $27 per dozen list. The same are to be retailed for $3.50. In their circular letter the Bissell Co. are pleased to be able to state that the new prices recently announced to the trade have been greatly appreciated, as is evidenced by the liberal orders they have received. In the same circular they also call the attention of the trade to their line of toy sweepers, which commands a large sale during the fall and holiday seasons.

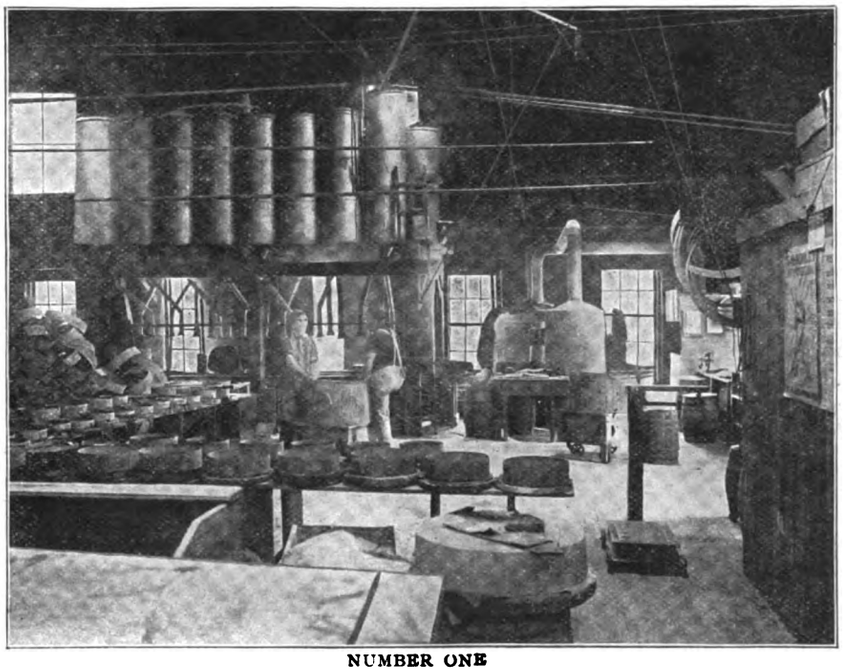
The exports of rifles from Germany show a very rapid increase, having grown from 1,354,700 marks in value in 1890 to 16,000,000 marks in value in 1895, and a further gain in 1896 to 20,000,000 marks. The bulk of these shipments is made from the port of Hamburg.

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THE EMERY WHEEL; ITS MANUFACTURE.

It is always a matter of interest to walk through a great manufacturing establishment and learn the methods by which some well-known product is prepared for the market, and for the use of consumers. The evidences that one sees upon every side of applied genius, of American ingenuity, of continuous industry, and of the facilities that are brought into requisition for the production of the largest amounts of goods at the lowest possible cost, are gratifying to any one who has a desire to see the natural advantages of our country put to the best and most profitable economic uses.

It was with feelings of this character that a representative of *Hardware* made a tour through the extensive plant of the Sterling Emery Wheel Mfg. Co., of Tiffin, Ohio, some days since. This institution is one of the foremost, if not the principal, manufacturers of emery and corundum wheels in the country, and a few details concerning the plant and its products cannot fail to be interesting reading to the host of users of these goods throughout the country.



NUMBER ONE

As is well known, the two abrasives which give the emery wheel its grinding and polishing qualities are emery and corundum These two substances are practically the same abrasive, for the part of the emery that does the work is corundum. Emery is a mixture of corundum and the so called oxide of iron; mother nature is the mixer. The percentage of oxide of iron in emery sometimes runs over 50 per cent. Emery is mined in Asiatic Turkey, in the Island of Naxos, and in Chester, Mass. The Chester emery has a larger percentage of corundum than the foreign emery. Corundum is found in commercial quantities only in North and South Carolina and Georgia, although there is some of it in Alabama and Eastern Tennessee. Corundum, being free from an excessive percentage of foreign matter, possesses much greater polishing and grinding qualities than emery. In the arts and sciences corundum is rated next to the diamond in hardness, emery coming next to corundum.

Referring to the illustrations of the principal departments of the plant of the Sterling Emery Wheel Manufacturing Company at Tiffin, Ohio, View No. 1 shows the mixing department, the large tanks at the rear containing the different numbers of emery and corundum. A weighing appliance is underneath each, thus allowing the mixer to draw such sizes and quantity as is needed for the mixture. The wheels, after being mixed, are put in a dry room for one night.

Cut No. 2 shows the process room, which is called the shaving department. The vitrified wheels are here shaven down to nearly the required size, leaving just enough allowance for contraction in burning. The wheels are then placed in a large dry room and remain there until thoroughly dry before being placed in the kilns, one of which is shown in the next illustration.

In No. 3 we see the kiln men drawing a kiln, the wheels having been subjected to a heat of between 2500 and 3000 degrees for about seventy-two hours, thus becoming thoroughly vitrified and one solid mass. The next process is shown in cut No 4, where the wheels are trued up and turned to exact size, after which they are tested at a speed giving them a working strain of more than double that at which they should be run when in actual use. Besides this test every wheel is tapped by an expert with a hammer the last thing before being packed for shipment, to make assurance doubly sure that no unsound wheel leaves the factory. Incidentally, it should be mentioned that every emery wheel should always be tapped in this way just before it is placed on the machine for use, as it is not unusual that a wheel is so handled in transit that a latent crack is started, and does not manifest itself until the wheel is in actual use.

Another item of interest to the user as well as the manufacturer is that an Ohio State Inspector of Factories recently stated that he found in his experience as an examiner that in at least nine cases out of ten, where emery wheels were broken while in the hands of the user, that the breakage was caused by the workman in putting the wheel on the machine. This is of especial interest for the reason that it comes from one whose duty it is to examine into accidents in the interest of the workman and not in the interest of either the buyer or the seller.

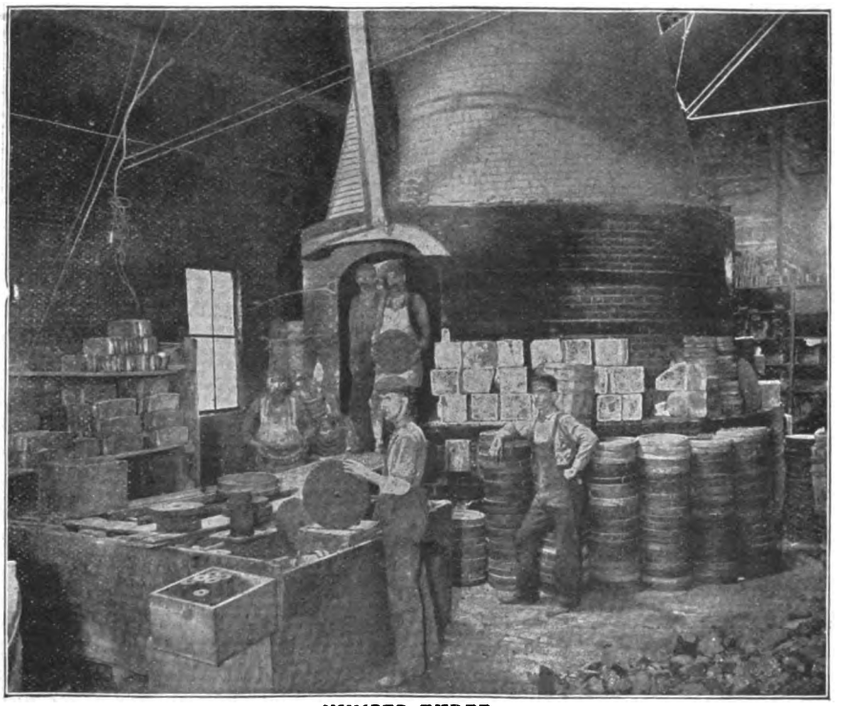
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Illustration No 5 shows the principal process in the manufacture of the "advance safety" or "silicate" wheels made by the Sterling Emery Wheel Mfg. Co. The men are at work tamping the mixture into moulds. This, as will be readily understood, requires skill and experience on the part of the moulder, as he must get the mixture in



NUMBER TWO.

equally, and in such a way that the wheel will be of the same hardness through and through, and hence run true and cut uniformly. In the center of this wheel a wire web is placed when so desired. After the wheels are moulded to a proper size, they are baked in the oven shown at the rear of the illustration. They are then taken to the turning department, illustration No. 4, where they are trued



NUMBER THREE.

up and tested by the same process that is done by the Sterling or "vitrified" wheel.

By a marked exercise of ingenuity and good judgment, this factory is so arranged that the raw material which enters at one end proceeds by regular steps to the other end, where the finished product is packed for shipment. The shipping facilities of the company are unequalled, as side tracks which extend on both sides of the factory, give them direct connections with the numerous trunk lines branching out in all directions from Tiffin, to the world at large.

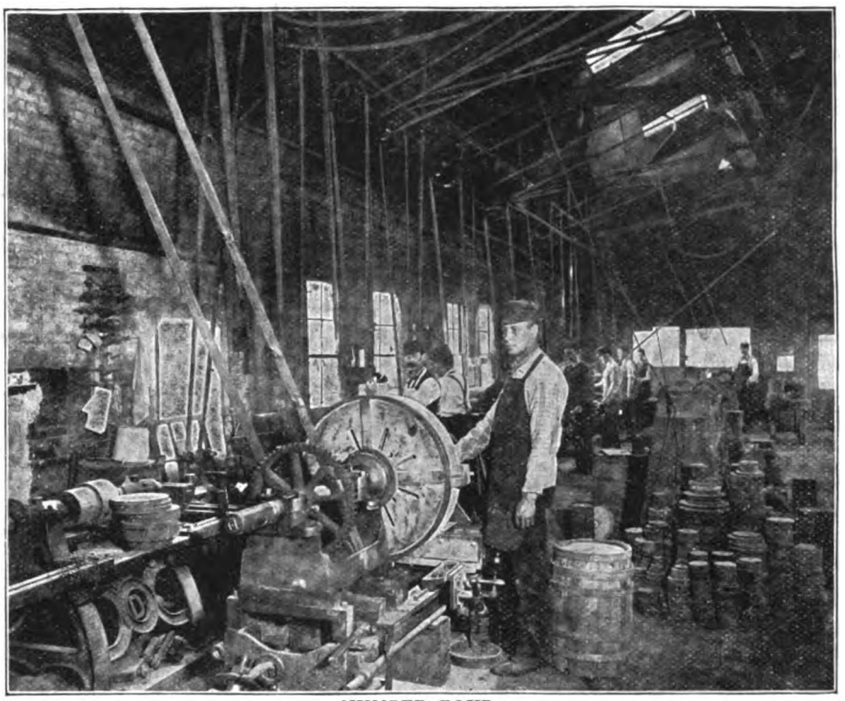
In addition to the growing home demand for the product of this concern, it is building up a very fine foreign trade, and the reputation of the product of the Sterling Emery Wheel Manufacturing Company abroad, as well as in this country, is second to none.

The plant at Tiffin is under the personal management of Alton H. Kimball, the secretary and general manager. Mr. Kimball is a thorough expert in his line of manufacture, and in addition is a most capable business man, which fact is evidenced by the character of the concern, which has grown so large under his care, and which is so ably carried on at present. He was for many years allied with the emery trade before engaging in the manufacture of wheels for himself. His personal attention is given to

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every detail of the business, and buyers recognize and appreciate the courteous and businesslike treatment which they receive at his hands, and those who have once done business with this company are only too happy to repeat this experiment indefinitely.

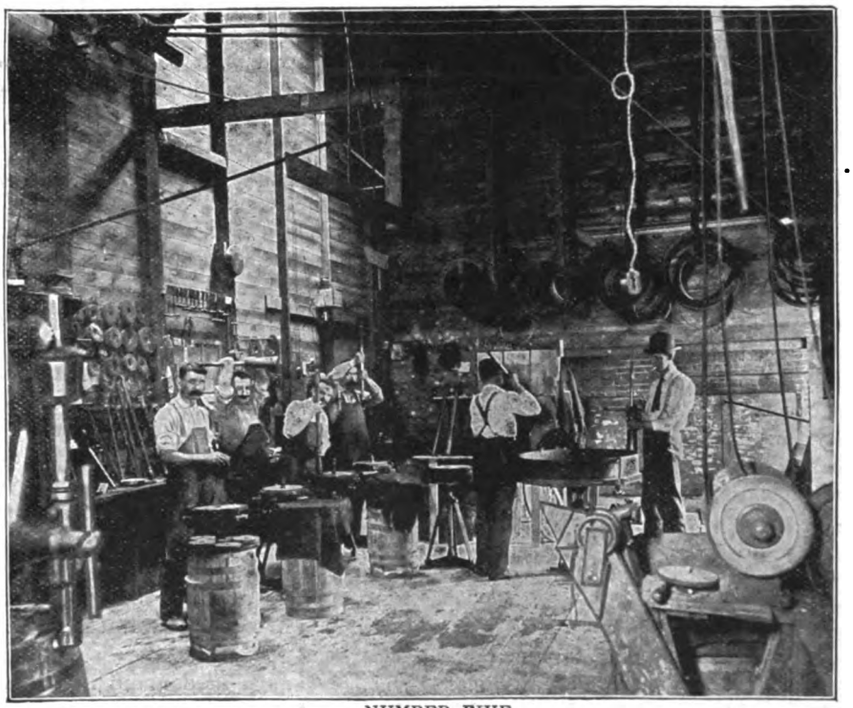
It may be entirely appropriate here to speak more at length of the material from which these goods are made, with some general information in regard to the trade, which has been compiled by one thoroughly acquainted therewith, as follows: Both emery and corundum are prepared for use in about the same way. They are crushed down to different degrees of fineness, and after being cleaned, are graded in different sizes, ranging from No. 6 to the finest flour. These sizes take their names from the number of meshes to the lineal inch of the wire cloth through which they are graded. The coarser sizes are used mostly in making emery and corundum wheels.



NUMBER FOUR.

The principal reason why more emery than corundum is used is the difference in cost. Miners of emery ore in Turkey receive but 6 or 7 cents per day, while the minimum wages paid to miners of corundum in this country is not less than 70 cents per day Another reason for the greater cost of corundum is the fact that emery ore is brought to this country largely as ballast, and the cost to land it is, therefore, about one-twentieth of the cost attached to transporting corundum from the mines to the same points in this country.

This increased cost for the transportation of corundum is due largely to the fact that the mines are located at considerable distances from lines of transportation, and even when delivered at the railroad, the rail freight is more expensive than the ballast freight of sailing vessels.



NUMBER FIVE.

The principal difference between emery and corundum wheels is that one is made of emery and the other of corundum, the bond or cement holding the grains of emery or corundum together being practically the same in each. An emery wheel is made of such diameter and thickness as will best suit the work required of it. It is made in dif-

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ferent degrees of hardness, some work requiring a soft, some a medium and some a hard wheel. It is also made of different sizes of emery, depending on whether or not the work to be done is coarse or fine.

The chief uses of emery and corundum wheels are to finish up and give a smooth surface to any iron, steel or other metallic substance, stove castings, agricultural implements, machinery, tools, cutlery, etc. Large quantities of them are used, as is well known, for gumming saws and grinding planer knives. In fact, they are sometimes called rotary files. One can readily understand that it would be practically impossible to name all the different purposes for which they are used. Their employment, however, can be summed up as follows: They are used for grinding, polishing, sharpening and shaping metal and wood substances. This does not cover all their uses, for the Sterling Emery Wheel people have made wheels for grinding feathers. They also do the work similar to that required of the planer and lathe. It is even claimed that the use of the emery wheel can be so varied and developed that the volume of the business is still in its infancy.

There are already such a variety of grades, shapes and sizes now in use that it is an impossibility for any manufacturer to carry a full stock of wheels, for if only one wheel of a known kind were kept on hand there would have to be over 700,000,000 of them. Therefore, most orders have to be made up after they are received. Comparatively few buyers understand this fact, and consequently do not place their orders as much in advance of their needs as they should. Neither do they allow for the necessary time it takes to properly make a wheel. And right here the writer desires to make an observation to buyers of emery wheels. It is most eminently desirable that when an order is placed with an emery wheel manufacturer for wheels, it should be accompanied with specific information as to the purpose for which the wheels are to be used, and also the normal speed at which they are to be run.

There are practically three classes of emery and corundum wheels—"vitrified," "silicate" and "chemical." Some users prefer one kind and some another. The "vitrified" wheel, of which there are the most in use, is burned in kilns, as shown in illustration No. 3. The "Silicate" comes next in quantity used. The difference between it and "vitrified" consists principally in the difference in the bond used to hold the particles of emery and corundum together, in that it is molded and tamped in molds instead of being cast in just the sizes required, and then cooked or baked in ovens for a much shorter time and at not near as high a heat; also, in that it can be made with or without a wire web. The Sterling Emery Wheel Mfg. Co. make both the straight "vitrified" and "silicate" wheels, and also a semi-vitrified "silicate" wheel, which combines the best qualities of the other two. For the special purpose of saw gumming this concern makes more than any other in the country. The high quality of the Sterling wheels has so won the public appreciation, and they are so well liked by all users, that the growth of the industry has been a steadily increasing one.

Our Trade With China.

The appointment of Dr. Edward Bedloe, of Philadelphia, Pa., as consul to Canton, China, was received with much gratification by the numerous friends of the doctor. His long experience in the consular service in China in years past will doubtless serve him to excellent advantage in the important position to which he has been called. American manufacturers will find in Dr. Bedloe a zealous champion of their interests in the far East. The doctor is on record as having stated:

"There is a golden future in our commerce in manufactured goods in the far East. I believe that our best and most profitable markets in the future will be found there. The difficulties and obstacles are numerous, but the national trait of Americans is to overcome such things, and by wise foresight of our legislators and diplomats and a study of conditions by our boards of trade and chambers of commerce it can be accomplished. We are bound to encounter the jealousy and hostility of the European trade interest already established in those distant lands. The Great Britain houses, the Germany companies, the Belgium and French firms leave no stone unturned to hinder or injure us and to kill or hurt our American trade to the promotion of their own. Some foreign firms, indeed, go to lengths which in our own land would be regarded as actionable at law and even punishable by our criminal courts.

"Much of my consular work while in China," continued Dr. Bedloe, "consisted in exposing and checking these infamous frauds. One example was an imitation Winchester rifle made in Belgium by an English firm of the lowest grade materials, which was as liable to kill the man who fired it as the man or animal it was fired at. Another instance was the dangerous imitation of American-made cartridges for Winchesters, Colts, Remingtons, Smith & Wessons and other first-class firearms, which were manufactured near Birmingham, England, by cheap labor and of poor materials which were worse than worthless. It is not surprising in the face of such manifest and glaring frauds practiced by the British that our gallant Admiral Belknap, when commanding our Asiatic squadron, in his official report to Secretary Tracy referred to Great Britain as 'the rich robber of the universe.'

"Among other frauds that I remember to have seen practiced," continued Dr. Bedloe, "were the filling of American flour bags with poor imitation British flour; filling canvas covers of Chicago ham and bacon with really unmarketable pork; putting up Siberian salmon in exact imitation of the best salmon canned in California and Oregon, and selling cheap imitations of Ames' shovels, Collins' Axes, McCormick's farming implements, Disston's saws, Rochester lamps and American student lamps. Worst of all, I have seen the trashiest barytes-filled English cotton cloth stamped with counterfeit labels of the Fall River, Taunton, Willimantic and other high-class American trade marks. American kerosene tins are filled with the lowest grade of Russian oil and even with the kerosene from the new petroleum discovered in Sumatra. American cigarettes, American sewing machines and American clocks are all imitated in the manner that I have described."

"What is the reason for such widespread imitation?" Dr. Bedloe was asked.

"Because American goods have such a high reputation in all eastern markets," he replied. "They are universally recognized as the best. To the orientals the mere fact that an article is American is a guarantee of its worth and value. The condition that I have described that exists to-day is what we may expect to have continued until treaties shall be enacted which shall put an end to this style of swindling and robbery.

"To promote and extend our foreign trade," said he in conclusion, "we should have keen business men and practical artisans at the principal points in the far East to learn what the people want, to ascertain how they make their own goods and the designs and patterns of goods which are most in demand in the different districts, and thus practically learn what is necessary to meet the requirements. I have always thought that a permanent exhibition of American products should be established in China, to which consignments of American-made goods could be sent, and every article in which there is a profit for the manufacturer, the merchant and the exporter displayed for the instruction of the oriental purchasers."

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NEW GOODS AND SPECIALTIES.

A Motor Lawn Mower.

When Thomas Coldwell, of Newburgh, N Y., finds himself unable to invent something new in the Lawn Mower line, he will doubtless feel that his mission in life is ended, and go and jump off the edge of everything. His latest exploit is worthy of even his previous efforts. He has invented a lawn mower that pushes itself.

The Coldwell Lawn Mower Co. have had the experiment of a horseless mower under way for some time. Several



days since, a trial was made on the Powelton Club grounds, at Balmville, and those present pronounced the machine a success, but no one was better pleased and had reason to be, than the inventors themselves. Wm. H. Coldwell, on account of the absence of his father, Thos. Coldwell, who had largely to do with the construction of the machine, said that considering the fact that it was an entirely new machine, and the first ever built in the world, and that this was the first trial, the results were far beyond what might be expected.

A machine of this kind has become almost a necessity on golf grounds and parks and other large lawns where perfection of work is the great desideratum. With the ordinary horse mower, the horse is liable to tramp down the grass, especially when it is wet or when it is tender. This is entirely obviated with the motor mower, as there is nothing in front of the cutters to tramp or roll down the grass. Another advantage in the motor mower is that it is heavier in construction, hence it tends to roll out imperfections and make a solid, even sod. The greater part of the machinery is encased in such a manner that it it hidden from view.

The frame of the main body of the machine rests upon three rollers. The first two are the main driving rollers, the third, which is in the rear, being a castor or steering roller. Resting on these rollers is a substantial platform on which is placed the engine and operator's seat. The engine is a gasoline engine of four-horse power, and can be run a whole day at an expense of twenty-five or thirty cents. The engine can be started in a minute's time and can be regulated to a fast or slow speed, as may be desired. It has a governor, which regulates the power and speed of the engine.

In testing the power of the engine, it easily carried eight men and carried three up some of the steepest hills, and cut grass so heavy that it would almost be impossible for a horse to cut. The cutter, which is forty inches wide, is situated in the front of the driving roller, and is so arranged that it can be raised from the ground and the machine can be used as a roller the same as a garden or street roller. The engine can also be disconnected from both the rollers and cutting device, and used as a portable engine for purposes of cutting feed, pumping water or any other work of a light character. It has a very ingenious device for automatically disconnecting one of the driving rollers when turning a sharp curve, by which means it can be turned round in a space not much larger than that which the machine occupies. The machine is entirely operated by the ordinary hand wheels, placed one directly over the other, very similar to those used on cable cars. By means of these wheels the operator can stop and start the machine, run it backward and forward, and direct its course without leaving his seat. The motor mower not only does much better work than a horse mower, but the inventors expect that it will be much more economical, as it moves over the ground much faster than a horse, and never gets tired. Mr. Coldwell stated that it was not yet clear as to what the expense of the machine would be, as they had some few changes to make which would increase its simplicity and efficiency, and also materially reduce the cost of the present machine.

On producing this the first motor lawn mower, the Coldwell Lawn Mower Co. have shown their usual commendable enterprise in quickly discovering a necessity in their line and being the first in the market to meet it.

The "Ski."

No doubt every visitor to Duluth, Minn., who glanced up the hill from the foot of Fifth Avenue, west, has thought, "what a fine place for coasting;" but if he could be there in midwinter, he would see some of the most exciting of winter sports, quite new to many sections of the country, and, compared with which, the ordinary "sliding down hill" is very tame. The Duluth Ski Club make their headquarters at this point, and entertain thousands with their agility when the snow and weather are favor-



able. The course starts from the Boulevard, and, after sliding for two blocks, the runners come to a short level space which, declining abruptly, sends them shooting out into space, and it is surprising the distances which are jumped in this way. From 60 to 100 feet jumps are frequently made, and the longest on record was 127 feet. The jumper is expected to land on his feet, and then continue his slide down the incline "like a flash." If the jumper fails to recover his erect position, he usually has a good roll in the snow, and loses his record, but that does not

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discourage, and he is soon up for another slide. The toe goes under a strap, and the heel fits over a block, so the wearer, losing his balance, the skis are quickly detached. This sport was introduced in this country by the hardy Norsemen, but it has been proven so interesting and attractive, that it has been practiced by all classes, and many successful clubs have been formed. Over ground but little inclined, the ladies and children find the Ski running great sport, and as they are much easier used than snow-shoes, they bid fair to become much more popular. The Marshall-Wells Hardware Co., of Duluth, Minn., have made a specialty of these Skis. They are made of selected woods, and the No. 5, for men or ladies, are made with bevelled edges, swelled runners, grooved bottoms, ornamented and varnished. These are seven feet long, but they have smaller for children and larger for cruiser's use.

New York State Jobbers.

At the ninth annual meeting of the New York State Association of Hardware Jobbers, held in Syracuse, the following officers were elected for the ensuing year:

President, Charles H. Turner, Albany Hardware & Iron Co., Albany.

Vice-president, J. W. Black, Burhans & Black Co., Syracuse.

Secretary-treasurer, S. J. Weaver, of Weaver, Palmer & Richmond, Rochester.

The meeting was largely attended, and was followed by a banquet tendered by the local Hardware houses of Bradford Kennedy Sons & McGuire, and the Burhans & Black Co. J. W. Black acted as toastmaster, and speeches were made by President Turner, Frederick Barker, C. E. Walbridge and others.

A very entertaining paper was read by Hobart Weed, of Weed & Co., Buffalo, which we reproduce herewith in full. The title was "Confidence in One Another," and the points made by Mr. Weed were certainly well taken and appreciated:

"Your highly honored president has requested a paper from me, at this meeting, and I have taken as my subject, 'Confidence in One Another.' I shall not attempt to tell you that some other fellow could do a great deal better; he might, he might not. I have my own personal views. During the business depression of the country many things have happened that have brought very forcibly to my notice that 'good may come from misfortune,' that most pleasing for me to mention being the confidence that has developed among competitors. For years past the Hardware manufacturers and dealers have seen their profits gradually declining, and many good people being forced to the wall.

"But some wise ones have realized that there must be an end, and you have noticed that many of the manufacturers have made various attempts to get together in order that benefits might follow. In some cases it has proved in vain, while in others it has been crowned with more or less success. You all recall the nail manufacturers having been at swords' points for many years—in fact, till their profits were gone, and it looked as though their mills would follow suit. But after a great deal of consultation they became convinced that their only salvatien was to get together and agree on some plan that would further their interests. You all know what has happened; and these people coming together, as they have done, it has made a better feeling among them, and they have more 'confidence in one another.' Take, for instance, during the last few months, one of the largest nail companies had a very serious strike and were obliged to close their mills, but were enabled to secure nails from other competing manufacturers to serve their customers. This could not have been done some years ago.

"Then, again, take the shovel combination. Were people ever more bitter than they? I recollect that one of the most prominent shovel men was in Buffalo when he received a message asking him to meet the rest of his competitors and discuss the matter of getting together. He told me that under no circumstances would he enter into an agreement—he had no faith in his competitors. But in some way he joined them, and now at this moment they are a very strong association; and if any of you have ever attended their meetings you could but notice the friendly feeling and the confidence that exists among them, which, of course, has been to their financial benefit.

"They are making money, and the foundation is confidence in one another. Another instance of more recent date: For years two of the leading manufacturers have had any amount of trouble with Mr. ——, and they have tried in almost every way to get him to meet with them. I was in New York two weeks ago and met these two manufacturers and they said: 'We have at last succeeded in getting Mr. —— to join us in a conference. He arrived this morning, but we have very little faith that anything can be accomplished.' But they thought no harm could come of getting together. When I came up to the hotel at night I was astonished to see the three manufacturers together, and in the most pleasant frame of mind. And the two of little faith both informed me that Mr. —— was a different man from what they had anticipated, and their meeting had been most successful. These instances prove that the most important factor in our business relations is confidence in one another; and many times when you come to know people, you find they are not as black as you have thought them to be. Take our own association—how our views have been changed by our closer relations.

"I have often thought the American people were inclined to work with a chip on their shoulder, waiting for someone to jostle them a little, and then ready for a combat. We, ourselves, may have been so. For years we have been told that our competitors have been making lower prices.

"Well, we felt that the only way was to meet the competition; but I believe that if we could all be more gentle, and show a kindly spirit of good will and fellowship, there could be no better investment. It would prove of more profit than screws at 90 and 50. Of course, it is very easy to say what we ought to do, as regards being more forbearing and not too rapid at conclusions; the pride of many of us has restrained us from seeking our competitors to see if the spirit of confidence could not be entered into. But how many of us have thrown our money away in the attempt to get even with our neighbors!

"Do not, for an instant, gentlemen, let me give you the impression that Weed & Co. are free from faults. Far from it. But I do believe that if all of us would cultivate the spirit of confidence, it would make our lives happier and our pocketbooks heavier.

"We have proven in the past that our meetings have been of vast importance to us all, and I question if there is any house that has been connected with this State Association that will not readily admit that it has been a good investment for them in the frank discussion of many different matters, as I believe that every individual house has some one method that really is of great importance to them. Now bringing us altogether and discussing these different subjects, we gain new ideas, as some house will have one point of which they have made a study and another house will have others. These minor items may seem to some of very little value, but they really strengthen the foundation of our business. I seldom go through one of the large factories but some small matter strikes me which I believe is a good investment for our house to adopt. So let us strive more and more in trying to build up this confidence in one another, and in our meet-

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ings be more frank in discussing the different methods in vogue in our establishments, so that we may get the benefit of our neighbors' experience. The matters of profit sharing; of dividing our stores into departments; of shipping and receiving our goods; the treatment of our employes—these are a few items that come to my mind. And there are others that can be of help to us. If we are to have years of prosperity (as many predict), we can reap great reward from Confidence in One Another."

Death of David Folsom.

David Folsom, of the H. & D. Folsom Arms Co., No. 314 Broadway, New York, died in his apartments at the Marie Antoinette Hotel, in this city, on October 21st. He had been ailing for some two years from a complication of troubles, but was seriously ill only several days before his death. Mr. Folsom was well known wherever goods of his line of manufacture were sold or used. He was born in Auburn, N. H., fifty-six years ago, his father being John Folsom, of that place. He was educated at Dartmouth College, and in 1861, immediately on leaving college, went to St. Louis to join his brother, Henry Folsom, who had established a business for the manufacture of arms a year previously. The firm was known as the H. & D. Folsom Arms Co. At different periods it had branches in Chicago, Memphis, New Orleans and New York. At present it has two establishments, one in this city and the other in New Orleans. It has been chiefly engaged in the manufacture of rifles for sporting purposes. Henry Folsom died about six years ago, and his son, Henry T. Folsom, took his place in the firm. David Folsom came to this city to conduct the affairs of the company more than twenty years ago. He lived in Orange, N. J., until a short time ago, when he moved to the Marie Antoinette Hotel. His wife and one son, David Folsom, survive him.

At a special meeting of the Gun and Sporting Goods Trade called October 21, 1897, to do honor to the memory of the deceased, the following resolution was passed:

Inasmuch as it has been the Divine will to remove from us our esteemed associate, David Folsom, with whom our constant intercourse for fully a generation had ripened our acquaintance into a deep and lasting membership. Therefore, we desire to give expression to our sorrow, and to make record of the worthy name he has left among us.

His honorable career was recognized and deeply valued—courteous, straightforward and high-minded. His sterling character and upright example are a goodly heritage.

Resolved, That this expression of our sorrow be conveyed to the bereaved family, and that it be duly published.

New Members of the Hardware Club.

At a meeting of the Board of Governors of the Hardware Club of New York, held on October 14th, the following gentlemen were unanimously elected to membership.

Henry Hopkins, Associate Editor HARDWARE, No. 143 Chambers Street.

George Davidson, No. 29 Chambers Street.

Ernest L. Baldwin, Empire Rubber Mfg. Co., No. 63 Reade Street.

A new kind of swindle has been unearthed in New York. A well-dressed man called on George Williamson, a merchant in Wappinger's Falls, and said he had been sent by Dennett & Co., Hardware dealers of Philadelphia, to correct an error in a bill of goods ordered. He asked to see the bill, and Mr. Williamson gave him a note to his wife to show it to him. The stranger told Mrs. Williamson that if she would pay the bill he would discount it at five per cent. She gave him $46, and he receipted the bill and left. Inquiry of the firm disclosed that the man was a fraud. He tried the same scheme, using the names of other firms, on merchants in this city, and collected several hundred dollars.

Review of the Markets.

Similar conditions prevail throughout the trade as have formed the features of the month just past, lessening demand being noticeable, and an absence of the impatience of delivery which characterized the earlier part of the season.

Prices keep moderately steady, and the end of the season is already anticipated by the manufacturers in their efforts to complete orders already in hand. The fact of so many orders still remaining upon their books unfilled, prevents any slump in prices for the purpose of making sales, when the advances in raw material would make any quotation except advanced ones, uncalled for and anomalous. The markets bid fair to be regulated by higher prices based on conditions that are unavoidable, with an increasing demand for goods possible for the future, met by a prevailing scarcity of material in primitive conditions for manufacturing purposes.

Wire Nails: Still keep in active demand, not quite so large in volume as a month ago, but noticeably good. Prices are well sustained in the fact that the mills have many unfilled orders still in hand, smaller sized wire nails being in anything but a full supply. Stocks have been greatly reduced in many points, and that fact alone will keep the season good until December 1st. Prices consequently are steady, with a still further advance over previous quotations for less than carload lots at mill, which are quoted at $1.50 f. o. b., advanced rates being named, according to quantity, for less than carload lots. New York quotations are $1.65 for carload lots on dock; smaller lots from store 5 to 10 cents a keg higher.

Cut Nails: Are still held at the prices agreed upon by the Eastern and Western mills as a basis for future transactions. There is by no means a large business being done in this line, bnt prices are held firmly, the New York price being for carload lots, $1.43, and for less than carload lots an advance of 10 cents a keg.

Cordage: As we approach the end of the season, fluctuating quotations on cordage become less noticeable. The following quotations may be considered as firmly held by the leading makers, the usual rebate for carload lots of ¼ cent a pound being still conceded:

Manila, 7-16 inch and larger	per pound,	5¾	cents.
" ⅜ inch	"	6¼	"
" ¼ and 5-16 inch	"	6¾	"
" Tarred Rope, 15 Thread	"	6½	"
" Hay Rope, Medium	"	5¼	"
Sisal, 7-16 inch and larger	"	4¾	"
" ⅜ inch	"	5¼	"
" ¼ and 5-16 inch	"	5¾	"
" Hay Rope, 2 to 10 Ply	"	4¾	"
" Medium Lath Yarn	"	4¼	"

Shot: After an effort to sustain prices more greatly at variance with Western quotations, the Eastern manufacturers under date of October 18th, announce reduced prices as follows:

Drop Shot, sizes smaller than B, per 25 pound bag	$1 30
" " " " " " " 5 " "	.30
" " B and larger sizes, per 25 pound bag	1.55
" " " " " " " 5 " "	.35
Buck and Chilled Shot, per 25 pound bag	1.55
" " " " " 5 " "	.35
Dust Shot, per 25 pound bag	2.00
" " " 5 " "	.50

Terms net cash, 30 days, or 2 per cent. discount for cash in ten days.

Agate Nickel Steel Ware, etc.: The Lalance & Grosjean Mfg. Co., No. 19 Cliff Street, New York, have recently issued a new price list of their various lines of enameled steel ware, to which the following discounts apply:

Agate Nickel Steel Ware	40 and 10%
Peerless Ware	70 and 10%
Crystal Steel Ware	50 and 10%
Blue and White Ware	50 and 10%
White Ware	25 and 10%

They have added a number of new articles to their already extensive assortment, and call especial attention to their important line of Agate nickel steel ware, which from its superior quality and the original and perfect methods of manufacturing, possesses advantages which make it worthy of the confidence of the trade. The prices of this ware

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remain as previously, but in the other lines reductions will be noticed by the dealers.

Coil Chain: The irregularity in prices which has been the feature of the market for coil chains, during the early part of the season, has at last been settled by a number of the leading manufacturers agreeing upon the following prices, which, however, apply only to full casks of coil chain. Terms, net cash, thirty days, and a freight allowance not exceeding 21 cents per 100 pounds.

3-16	¼	5-16	⅜	7-16	½	9-16	⅝	¾	⅞	1 in.
$5.50	4.10	3.10.	2.75	2.70	2.50	2.40	2 35	2.25	2.20	2.15

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of October 15th, quote prices as follows: In lots of less than 5 barrels, 37 cents per gallon; in lots of 5 barrels or more, 36 cents per gallon. Boiled linseed oil, 2 cents per gallon higher. Calcutta oil, 54 cents per gallon.

THE BOSTON TRADE.

From reports we do not hear that the volume of business exceeds anyone's expectation, and the hope that we might be favored with an unusual amount of autumn business has vanished.

The bright, crisp weather has served as a stimulus to the trade, and all jobbers report the usual demand for such merchandise as is sold in October.

Retailers seem to be buying in such quantities as indicate nothing of a speculative nature. They prefer to run a light stock during the balance of the year and reduce their indebtedness as much as possible.

Collections are fair, and there is evidence of a good circulation of money in the manufacturing towns, which we believe is a favorable condition in anticipating a good winter and spring business.

There seem to be no advances worthy of mention, but prices are being well maintained, with absence of any willingness on the part of the manufacturer to make concessions beyond present ruling quotations.

FRYE, PHIPPS & CO.

THE PHILADELPHIA TRADE.

At present manufacturers seem to be getting more than their share of trade, as they generally report a large increase of business and a correspondingly large output of manufactured goods. These goods, however, are mostly ordered by jobbers in anticipation of a revival of trade which is now believed to be on the way.

The hopeful signs still continue, and are even on the increase, as shown in the importations of gold now on the way and soon to arrive.

Farmers are still benefitting by the advanced prices, and, as a local matter, we will say that those farmers who have been so fortunate as to have a good crop of potatoes are getting prices which are most exceptional and show a handsome profit.

With this money now finding its way into the hands of the farmers, and through the busy factories to the employees, it seems inevitable that trade should gradually increase in a very healthy manner.

Manufacturers seem disposed to withdraw extreme quotations, and, while moving conservatively, changes are almost invariably in the direction of higher figures, while some factories claim to be short of goods, and are certainly slow in filling orders.

Already bicycle agents are on the road visiting jobbers and talking about 1898. This is still, however, some distance in the future, and, as changes in styles are not apt to be many, it is not expected that many contracts will be placed early.

BIDDLE HARDWARE CO.

THE PITTSBURG TRADE.

We are pleased to again report that trade is improving from week to week. Travelers come in saying that people want goods and it is not much trouble to get an order now. There is certainly no boom in sight; only a good healthy growth in demand, as the mills and mines of this section put their men at work steadily.

The Monongahela River valley is fast becoming one vast workshop. Since the purchase of the Navigation Co. by the United States Government several new enterprises have started in this valley. Cheap fuel and cheap transportation are the attractions. The tin-plate industry is being pushed to large dimensions, two immense concerns being erected in this vicinity, one near New Castle and one in the Monongahela Valley.

LOGAN-GREGG HARDWARE CO.

THE COLUMBUS TRADE.

Trade continues very satisfactory and shows a nice increase over 1896. Prices are also becoming more settled; goods are hard to get in many lines. In the first place, manufacturers are behind with orders, and after shipment is made, transportation companies are slow in delivering. Collections have improved in the mining districts since work has been resumed. Coal operators are finding ready sale for all the coal they can mine, and the price of coal has advanced quite a little. It is hard to get cars on account of the heavy demand for Lake shipment, but they will not have that trouble long, because the Lake trade will drop off as soon as navigation is closed. We do not refer to navigation on our own beautiful Scioto River, as it never closes on our river. You can always navigate her in some way, either in a row boat or on foot. Just now you do not need a boat. Above the city they have dammed it several times with stone and wood; below the city they have dammed it many more times in another way. Now they are talking of damming it with a thirty-foot dam, and



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as it is to be left to a vote of the citizens whether it is to be dammed again, it will no doubt be dammed quick. Now we are not swearing, and hope none of your readers will think so. We hardly know how to word it so it would not sound like swearing. Guess we got it all right.

Down below the city at the sewer outlet, there is a deep place that reminds us of the river in Cleveland, through the refinery district. When you want to cross the river in Cleveland in that district, you do not need a boat. You just walk on top of the water; no need of fear, you cannot sink.

Prices on a number of articles have advanced. We might name tacks, sisal rope, iron, glass, iron pipe, coal hods, lace leather, shovels, imported guns and cutlery, while a number of articles are lower in price. But articles that declined in price are mostly lighter goods. Nails and wire have taken a rest for the past two weeks, but it would not surprise us if the manufacturers took *the* rest before long. If they accomplish what they have been trying to do, nails will be longer in price if not in length. We would regret to see an unreasonable price put on them again, as there is no doubt about it interfering with building, especially among the farmers. High priced nails always scare the farmer.

Galvanized iron and tinware are both about ten per cent. higher. We would like to see the very poor tinware banished, as it interferes with the trade on sieves. People buy a five-cent pan, and after using it a few times it is just right for a sieve. As we do not handle that kind of tinware, we lose the sale on both the pan and sieve.

Rain is needed badly. We have had only one shower for more than a month. Many acres of wheat had to be re-sown. If it continues dry much longer, the wheat crop of 1898 will not be a big one. However, it is a long while before harvest, so we will trust in Providence and keep hustling. SMITH BROS. HARDWARE CO.

THE CHICAGO TRADE.

We are very much pleased to note that since the advent of cooler weather throughout the Northwest our orders are increasing in size, especially so on all seasonable goods, such as stove boards, fire shovels, coal hods, elbows, meat cutters, sheet steel, sheet iron, barbed wire and nails. In the line of wire and nails, we have received more carload orders in the past week than we have handled before in three times that length of time.

We think now that farmers are about through with their harvesting, that they are paying some attention to the rebuilding of their fences, barns and outbuildings, and in many cases are putting up new houses. At all events, the demand for builders' Hardware is increasing, and we see no reason, from present indications, why our trade should not continue good right up to Christmas.

We learn from manufacturers that wire and wire rods are not only higher, but are very scarce; it is also certain that sheet iron mills are considerably behind in filling their orders.

Our experience in cutlery is to the effect that our trade, in many years, has not been so good as that which our men have had for the past two months, and are also having at the present time. WELLS & NELLEGAR CO.

THE DAVENPORT TRADE.

Since writing you, Mr. Nutting has visited Louisville, Ky., where he was entertained most delightfully by Wm. Belknap of the Belknap Hardware Co. Was pleased to learn that good times have returned to that beautiful and prosperous city.

Our sales here for September show a larger percentage of increase compared with 1896, of any month so far this year. Collections are good; prices firm. Stocks in the hands of both wholesale and retail dealers gradually begin to increase to their normal condition. Davenport banks show an increase of ten to twelve per cent in deposits over this time last year. SICKELS, PRESTON & NUTTING CO.

THE OMAHA TRADE.

Trade, for the first half of the month, shows a very handsome increase over the corresponding period of a year ago. No reasonable complaint can be made in regard to the volume of business which, in every respect, is entirely satisfactory, and collections are equally so. The main difficulty at present appears to be a sufficient supply of goods with which to take care of the demand. The trade fully appreciate the situation, and are, as a rule, very considerate in regard to the way some of their orders are filled, or not filled, and the general feeling, both among the merchants and farmers, is that the old-time prosperity which was promised a year ago, is a materialized fact and not a contract for future delivery. The slight improvement in prices of staple goods has still further improved the situation, and caused a feeling of confidence in placing advance orders which has not been seen for a long time past, and when prices move up a little higher so as to enable both manufacturers and jobbers to secure a fair return for the capital invested and the labor employed in conducting their business, it would seem as though nothing further is to be desired. A boom is the last thing that any of us want to see, but a sufficient advance to give the desired relief in the direction indicated above would be appreciated by all. RECTOR & WILHELMY CO.

THE GRAPHITE TRADE.

We are morally certain from the appearance of our order and sales books, that we are on the same wave that is carrying so large a majority of the other manufacturers of this country to that fair land, "Prosperity."

WHAT IT DOES

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties.
League Tires.

Ruby Packing packs any joint. Is designed expressly for high steam pressures and heats, and does not blow out or burn out under the severest duty. Ruby joints start tight and stay tight on any style of steam plant.

Ruby Packing packs every joint, temporary or permanent, hot or cold, steam, water or air. An engineer equipped with Ruby is ready for every emergency.

Another valuable quality: hardens slowly under heat, and where joints are faced with plumbago or lampblack Ruby gaskets can be used again and again.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Indianapolis... 70 S. Illinois St.
Philadelphia ..308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co.,* 91 Congress St. E., *Detroit, Mich.

Our struggle nowadays is mainly an effort to ship goods with promptness enough to keep customers good natured.

The numberless hurry orders received indicate short stocks throughout the country, and the percentage of orders for better class goods indicates a better ability to pay.

An incident gives the general situation. The writer has spent several seasons on a farm in Delaware County, N. Y.

The farmer last year, in discussing the situation of affairs, claimed that the country demanded the election of Mr. Bryan as a necessity to bring about a prosperity which would enable a farmer to make a living. He was getting 15 cents per pound for his butter and 65 cents per barrel for his apples, and would rather feed his milk and apples to the animals than attempt to make money at the prevailing prices.

This month the same farmer, in answer to an inquiry for prices, writes:

"I am selling my butter as fast as it can be made at 20 cents per pound, apples at $1.50 per barrel, and shall require a prompt order if these are wished in a reasonable time."

This same farmer is laying the foundation of a new house which will be newly furnished throughout.

Joseph Dixon Crucible Co.

Will See What Can Be Don.

The following is a verbatim copy of a letter received some days since by a jobbing house in a neighboring city. It is certainly unique in its way:

Dear Sir: Just a few lines to you to See if you got a Sprocket Weeal Witch Was Sent to you Sum five Weeks ago by ——— of ——— i have Sean him Serevl times aboute it and he sed he ad roate you Severl letters about it So there must be Sum think don one Way ore the other for i am tiard of awaiting of it if it hant here in ten days We wiell See What can be don.

George F. Carter has opened a new Hardware store in Orange, N. J., where any article desired in the Hardware line can be furnished. He will handle not only the usual lines of staple goods, but everything that can be needed in a community even as enterprising and prosperous as the one in which he is located.

That which is bargain in name is often deceitful above all things.—*Hardware and Metal Reporter.*

A Hardware Man.

There was once a Hardwareman who was determined to set up an image of a human being in his store window. He looked about his stock, and finding all the needed material, went to work, and his efforts were crowned with an unquestioned success. He took the legs of a stove, the teeth of a rake, the ears of a pail, the elbows of a stove-pipe, the tongue of a wagon, the nails from a keg, the fingers of a cradle, the head of a hammer, the nose of a tea-kettle, the hands of a cyclometer, the hair of a brush, the eyes of a needle, the bottom of a tub, the neck of a bottle, the arms from his gun department, the joints from a two-foot rule, from which he also stole the feet, the back of a refrigerator, the heel of a scythe, and the cheek of his traveling man. He was a little uncertain as to the "skin," but after a moment's thought, decided to give that part to the fellow next door.

The W. H. Elliott Electric Co., Marine Block, Middle and High Streets, Cleveland, Ohio, have been working eighteen hours a day the past five weeks, and from appearances, the manager informs us, they will be compelled to so continue for the next two months. They have just completed an M. P. 100 generator for the New York & Ohio Co., of Warren, Ohio, and two large generators U. S. type for Saudusky, Ohio. Their specialties are armature rewinding and building, commutator refilling and building, and dynamos and motors are overhauled and repaired.

George S. Parkes & Co., with headquarters at Nashville, Tenn., the well-known manufacturers of shafts, poles, rims, bows, etc., have removed their New York office from No. 64 Cortlandt Street to No. 89 Reade Street, in which new and commodious quarters they will be pleased to greet their friends.

The Miner & Peck Mfg. Co., New Haven, Conn., have removed their office and works to No. 419 Chapel at the corner of Wallace Street, where they have increased facilities for the manufacture of the Peck patent drop press, friction drop hammers, blast forges, etc.

Situation Wanted.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, N. C.

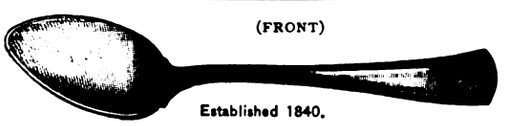
Highest Grade of

Silver Plated Ware

In Spoons, Forks, Etc.

Manufactured by

L. BOARDMAN & SON, East Haddam, Conn.



Established 1840.



Also Nickel Silver Flat Table Ware and Britannia Spoons.

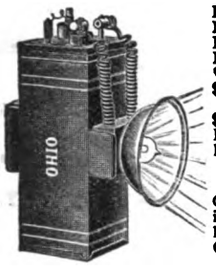
Write for Catalogue and Prices.

"PRODUCTIVE OF RESULTS."

Pope Mfg. Co., Hartford, Conn. [*Bicycles*]: While little advertising seems to be necessary this year to sell Columbia Bicycles, we still feel that our advertising with you is productive of results.

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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights	$4.0
Necktie Elec. Lights	1.5
Edison Elec. Motors.	1.0
Battery Fan Motors.	5.0
8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells...	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . .
Catalogues free.

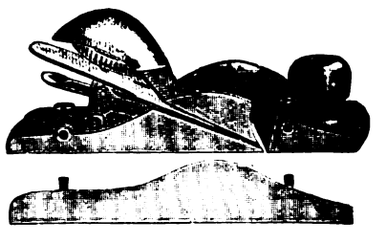
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

STANLEY'S RABBET AND BLOCK PLANE.



A detachable side will easily change this Tool from a Block Plane to a Rabbet Plane, or *vice versa*. The cutter is set on a skew.

No. 140. Rabbet and Block Plane, with detachable side, 7 inches in length, 1¾ inch cutter $1 25

The Employers' Side of the Engineering Dispute.

As the *Age of Steel* remarks: "There are two sides to every question, and what has to be said for either deserves a hearing, before any decision can be reached." The following is quoted from the *London Times* as giving the reasons why a lockout was enforced by the shipbuilders of Great Britain. They deserve careful consideration:

"The cause of the struggle is that the trade unions have interfered in the management of the works by their owners and have ordered the owners to make serious changes in their management, under threat of compelling the workmen to strike.

"The trade unions have ordered the owners to employ full price mechanics to work certain machine tools that can be worked by junior hands or laborers, and are so worked in other countries.

"The trade unions have ordered the owners to work each machine tool by a separate man, instead of one man working two or three machine tools simultaneously, as is done in other countries.

"They have ordered certain foremen to be discharged because not under the control of the trade union.

"They have ordered the speed of turning out work from certain machines to be limited below their full capacity for the purpose of increasing the number of workmen necessary.

"They have ordered that one mechanic shall not do any work of another trade, although competent to do it and required to do so for the convenience and expedition of completing the special work in hand.

"And now the trade unions are wanting to order the owners to pay the workmen nine hours' wages for eight hours' work, and let their machinery stand idle for the remaining hour of each day.

"The trade unions have tyrannized over the workmen by compelling them to strike when they had no desire to strike, and wished to continue in their situations, and they have further tyrannized over the workmen who are not on strike by compelling them to contribute heavily to the support of those workmen who are out on strike.

"This interference of the trade unions with the course of trade has now been carried to so great an extreme and the consequences involved to British trade in the present severe competition with other countries are so disastrous, that the owners have been compelled to unite for resisting the interference and the demands of the trade unions, and by a lockout to stop the forced contributions by which the strike has been supported."

"An Excellent Medium for Advertising."

Peerless Mfg. Co., Cleveland, Ohio. [*Bicycles*]: There is no question but that the Hardware trade is becoming a very large factor in the bicycle line. The two lines can be handled nicely together and, as a rule, a Hardware dealer has sufficient capital to add a cycle department, without danger of doing injury to his regular line. While again, few concerns have more visitors to their stores than the average Hardwareman, and this alone is a standing and effective advertisement for the bicycle that he may carry. We can see no reason why HARDWARE should not be an excellent medium for advertising.

DON'T FORGET US!

WE WANT YOUR "ORDERS."

Shafts, Poles, Rims, Bows, Cross Bars, &c.

OUR **O. S. G.** BRAND

Our large number of ORDERS convinces us that the WORLD appreciates our

HIGH QUALITY AND LOW PRICES.

OUR PLEASURE TO QUOTE OR ANSWER AN INQUIRY.

GEO. S. PARKES & CO.,

NASHVILLE, TENN.

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Seymour Cutlery Co., ESTABLISHED 1839.

—SUCCESSORS TO—

HENRY SEYMOUR CUTLERY CO.,

Office and Factory, Holyoke, Mass., U. S. A.

Seymour Shears ARE THE STANDARD.



- Every pair is fully warranted and if found imperfect from any cause will be replaced with perfect shears.

No commission house is sole agent for the SEYMOUR SHEARS.

- Notice our imprint on every paper pocket inclosing shears.
- Write for Catalogue and prices.

OILERS

25c. **10c.**





Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—

The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

A Deserving Enterprise.

At Stanleytown, Tenn., a number of colored men have formed a co-operative association for the manufacture of foundry goods. It is called the Southern Hollow Ware & Foundry Co., C. H. Ferran, president. Their new foundry is now about completed, having a main building 50x25 feet, with a number of out buildings and annexes. They have stocked the plant with a 40-horse-power engine, new cupola, machinery, models, patterns, etc., etc., costing nearly a thousand dollars.

They expect to be in operation by November 1st, and can turn out fifteen stoves a day, employing nearly fifty colored men when running complete. They do not expect to make much profit on stoves—competition being too strong with much more extensive plants, but expect to make their greatest profit on iron hollow ware and such piecework as they can get from other foundries in their vicinity.

Although this plant may or may not prove a success, its promoters certainly deserve considerable credit. The idea of building and operating this foundry started with the president, C. H. Ferran. Ferran is a colored man, almost white, who was formerly the slave of a wealthy Huntsville family. Before the war he was the chief blacksmith, or ironmaster, on the Ferran plantation near Huntsville, and has considerable knowledge of iron making. For the past year he has been employed as head molder at Citico furnace and makes good wages.

He works all day at Citico and walks to his home in Stanleytown in the evening. Then he spends half the night working on the foundry with a number of other colored men interested, all of whom are employed at different points in the city. It has been under Ferran's supervision that the foundry was built. Ferran is a very powerful man physically, and has taken an intense interest in the enterprise.

The company as it is, is somewhat different from other concerns of this sort. They have not borrowed a cent of money on which to start the enterprise. Ferran and each man interested had some money saved, and with what they could spare from their earnings have built the plant.

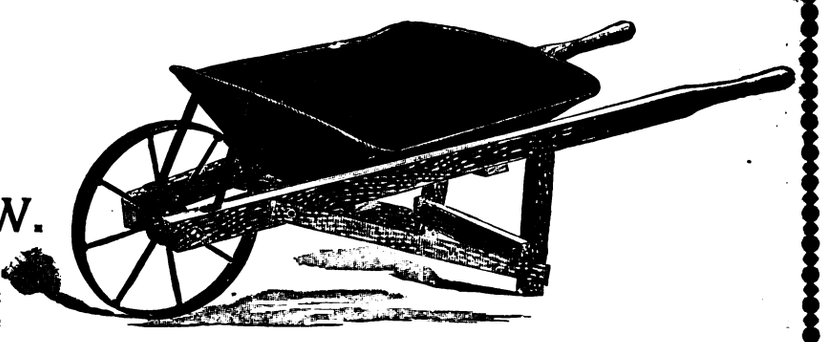
Cost of Trolley Power.

A table taken from the annual reports of the Railroad Commissioners of New York and Massachusetts for nearly all of the street railway properties shows the cost of the electric power required to run a car one mile under average conditions of load, etc. The table gives the number of cars owned, the car mileage per year and the cost of the electric power per mile and per passenger. Of the nineteen companies operating less than 250,000 car miles, four are obtaining power at a cost of less than 2 cents per car mile, six between 2 and 3 cents, five between 3 and 4 cents, one between 4 and 5 cents, and three at more than 5 cents; of the five companies operating over 5,000,000 car miles per pear, one obtains the power at less than 1 cent per car mile, three between 1 and 2 cents, and one between 2 and 3 cents; other similar figures are also given between these limits. The Brooklyn Heights Co. has the cheapest power, 0.86 per car mile, followed by the Binghamton with 0.94. The cost of power for Massachusetts roads includes repairs and depreciation of the station plant, which is not the case of the New York roads.—*Street Railway Journal.*

Aluminum in Wrought Iron.

The effect of aluminum in wrought iron is not very marked in the ordinary puddling process. It seems to add somewhat to the strength of the iron, but this increase is not of sufficient value to induce the general use of aluminum for this purpose. The peculiar property of aluminum in reducing the long range of temperature between that at which wrought iron first softens and that at which it becomes fluid is taken advantage of in the well-known Mitis process for making wrought-iron castings. It is for this purpose that aluminum is chiefly used in wrought iron at present.—*Exchange.*

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With Round Steel Spoke Wheel. The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.

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PERCUSSION CAPS

OF ALL KINDS.

Hicks Primers, Berden Primers, Powder Flasks and Shot Pouches.

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EYELETS AND SMALL BRASS WARES

OF EVERY DESCRIPTION.



COULD NOT KEEP HOUSE WITHOUT IT.

Sickels, Preston & Nutting Co., Davenport, Iowa. [*Wholesale Hardware*]: We would not know how to keep house without HARDWARE. The review of the Hardware markets, trade reports and editorials are frequently read before letters are opened that are received in the same mail with HARDWARE.

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THE ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

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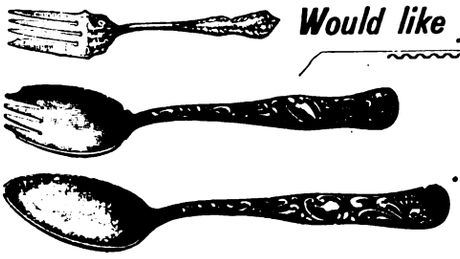
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Would like your business.

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YOU Can Guarantee Them.

The Holmes & Edwards Silver Co., - Bridgeport, Conn.

AGENCY JOSEPH RODGERS & SONS, LTD.

THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when THE VERY BEST can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF JOSEPH RODGERS & SONS, LTD., SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS, TABLE CUTLERY, SCISSORS, RAZORS, HUNTING and BOWIE KNIVES, POCKET CUTLERY, &c.

Its Corporate Mark

Is among the oldest, and now over 200 YEARS old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Asheville, N. C.—W. S. Robertson.
Atlanta, Ga.—Fitten, Methvin Co.
Bellflower, Ill.—Johnson & Price.
Bridgeport, Conn.—Curtis & Wellington.
Durand, Mich —Sabin & Brewster.
Eagle, Wis.—D. L. Newton.
Emington, Ill.—Charles Skinner.
Gallatin, Mo.—James Drummond.
Hicksville, Ohio.—Homer Dillworth.
High Springs, Fla.—I. J. Carter.
Loogootee, Ind.—Morris & Fields.
Louisville, Neb.—John R. Cox.
Montpelier, Ohio —Miller & Lamberson.
Naperville, Ill.—J. Perry.
New York, N. Y.—A. Edmund Hildrick Co. Capital stock, $45,000.
Orange, N. J.—Geo. F. Carter.
Ord, Neb.—J. C. Hayes.
Pine Bluff, Ark.—McGaughey Hardware Co. Capital stock, $10,000.
Youngstown, Ohio.—John Allen.

Changes and Removals.

Albuquerque, N. M.—The Rose Hardware Co.'s store was purchased by M. H. Donahue, the well-known stockman of Progresso. Mr. Donahue has been in negotiation with Mrs. S. E. Rose, the former proprietor, for some time, and on completing the deal, left for his ranch, leaving the business, now known as the Donahue Hardware Co., in the hands of F. W. Heyn, the new manager. Mr. Heyn is well and favorably known to the business men of Albuquerque and needs no commendation.

Altoona, Pa.—B. B. Young & Bro. disposed of their stock of Hardware to Duff & Co., of Ebensburg. The goods will be removed to that town.

Amsterdam, N.Y.—C. W. Williams; business advertised for sale.

Ashmore, Ill.—The Zimmerman Hardware Store has been purchased by E. Monroe, who will soon take possession.

Bellville, Ill.—F. E. Leise & Son have purchased the stock of Hardware of M. R. Hartman.

Berne, Ind.—B. N. Terveer has disposed of his Hardware store at Decatur to the firm of Ashbaucher & Bell. The new firm will take possession January 1, 1898. Ashbaucher is at present serving his second term as sheriff of Adams County, and Bell is the son Charles of A. R. Bell, of the firm of Smith & Bell.

Caro, Mich.—A. H. Haukerson; stock purchased by the Watrous Hardware Co.

Cincinnati, Ohio. — Seymour, Hoyer & Co., dissolved; business continued by John Seymour.

Clay City, Ind. — The William Lester Hardware Store, purchased by J. T. Bryan.

Danvers, Mass.—Leland J. Ross, who has conducted a Hardware store in the Porter & Currier block on Elm Street, for a number of years, has been moving into his new store in the Colonial building, this week. The building is the latest addition to the modern business blocks and is owned by Mr. Ross and J. F. Dale.

Danville, Va.—G. P. Peterson; now Traylor & Peterson.

Downey, Cal.—A. S. Gray & Co. have sold their stock of Hardware to Chas. M. Benbrook, who will shortly take charge of the business. It is understood that the stock will be removed to the Smart building on the corner of Crawford and Second Streets.

Durand, Mich —DeCamp Hardware Co.; stock purchased by Sabin & Brewster.

Elnora, Ind. — R. McLoughlin, Hardware, store purchased by Newt. Miller.

Emington, Ill.—Corbitt & Skinner have dissolved partnership. Charles Skinner will continue the business.

Franklin, Va.—W. T. Pace has made extensive improvements to his store.

Gilroy, Cal.—John F. Kimball sold out.

Holland, Mich.—J. Nies will enlarge his store.

Leonore, Ill.—John Over has purchased the stock of Hardware formerly owned by J. L. Frangenberg.

Manistee, Mich.—Wm. Miller has purchased the building which he occupies.

Nauvoo, Ill.—J. F. Ochsner will erect a new agricultural implement building.

North Adams, Mich.—R. H. Jackson & Co.; stock purchased by C. Bleech.

Ogden, Utah. — The Miles, Strevell & Ulmer Hardware Co. recently filed some amendments to their articles of incorporation. The name of the company is specified as the Strevell Hardware Co., and the capital stock is placed at $50,000, at $100 per share. Ogden is to continue to be the principal place of business.

Orange City, Iowa.—Den Hartog & De Kraai; John Den Hartog gave bill of sale of half interest for $2000.

Peck, Mich.—J. T. Waterman is building new store.

Parkersburg, W. Va.—George W. Niswander, who for a number of years represented Greer & Laing, of Wheeling, at this point, and who has recently conducted the big Hardware store of the Niswander Hardware Co., has disposed of his interest to Messrs. C. H. Shattuck and J. M. Jackson, Jr., of Parkersburg.

South Bend, Ind.—The Economist Plow Co. has sold entire plant and business to the Syracuse Chilled Plow Co., of Syracuse, N. Y.

Utica, Ohio.—The D. A. Bricker Hardware stock and business is to be purchased by C. W. Jewell, and the transfer will be made as soon as an invoice can be taken. Mr. Jewell will remove the stock to his own quarters and consolidate it with his present store, and all the employees of both establishments will be retained for the present.

Waitsburg, Wash.—S. A. Ferguson, succeeded by Ferguson & Fender.

Walkerton, Ind.—Ross & Jarrell have sold out to Ross & Brady, who will continue the business.

Wilber, Neb.—F. J. Hayek, Hardware and agricultural implements, succeeded by Joseph Honzik.

Business Embarrassments

Boston, Mass.—Stephen Nettles assigned to E. S. Hill and George H. Huse.

Cambridgeport, Mass.—Whittier Hardware Co. assigned.

Durand, Ill.—Geary & Christman, assigned to S. Monteith.

Elkhart, Ind.—The Jones Hardware Co. assigned to D. M. Best; liabilities, $3500.

Janesville, Wis.—Disotel & Wilcox have failed. Sheriff in possession.

Lowville, N. Y.—E. A. Davis closed by mortgage.

Monticello, Ark.—Harry Hankins, Hardware, has assigned. Liabilities $400; assets, $12,000.

New Haven, Conn.—Bradley, Dann & Carrington Co. ask for receiver.

Philadelphia, Pa.—Thos. B. Bickerton & Co. assigned. Assets placed at $25,000; liabilities, $19,000.

Pittsburg, Pa.—McMillan & Co., closed by the sheriff.

San Jose, Cal.—R. L. Stock has failed for $29,648. Assets, 20 598. Attachment proceedings hastened the insolvency.

Saratoga Springs, N.Y.—C. O. Van Dorn closed by the sheriff.

Shell Lake, Wis.—L. S. Covey assigned to J. H. Shields. Liabilities, $800; assets, $1000.

Toledo, Ohio.—George Schuck, assigned to Sam Kohn.

Recent Burglaries.

Cleveland, Ohio.—Davis & Hunt; loss, $125.

Council Bluffs, Ia.—Charles Swain; loss, $60.

Doylestown, Ohio,—W. A. Hoffman; loss, $60.

Edgar, Neb.—Gardiner Bros.; loss, $200.

Elizabeth, Pa.—Wylie Bros; loss, $75.

Gloucester, Pa.—Lewis C. Batten; loss, $25.

Hamburg, N. J.—John Wynn; loss, $200.

Luray, Va.—J. Y. Brown & Co.; loss, $25.

Marion, Ohio.— E. A. Bishop; loss, $50.

St. Paris, Ohio.—T. J. Losh; loss. $75.

Woonsocket, S. D.—E. C. Moorehead; loss, $30.

Recent Fires.

Green City, Mo.—R. C. Singley; loss, $4000; insurance not stated.

Medora, Ill.—J. Robbins; loss, $6000; insurance not stated.

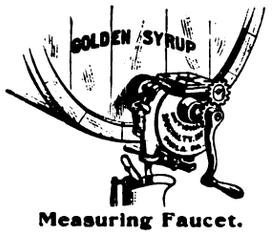
Norwich, Conn.—Hopkins & Allen; damage, $4000; insurance not stated.

Ramsey, Ill. — The Rucker Hardware store has been destroyed by fire.

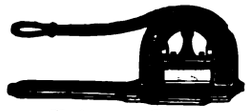
Riverdale, Mich.—R. E. Moblo; loss, $6000; insurance, $1500.

Wabash, Ind.—D. Cramer, agricultural implements, damaged by fire at a loss of $2000.

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Measuring Faucet.


Tobacco Cutter.

We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

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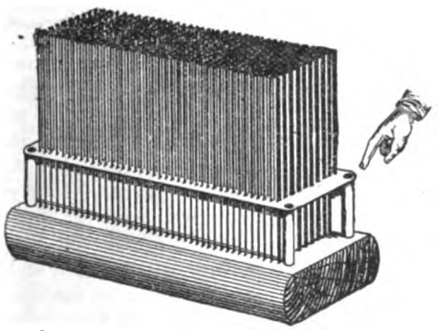

No. 1 Mill.

A First-class Hamburg Firm

Of wholesale dealers and agents in household goods, specialty enameled ware, with a large staff of agents all over the country, and doing a large trade with the Hamburg export firms, is open for the ***import*** of American household machines and similar goods; no bicycles. First-class bank references. . . .

Apply to "FOREIGN," care "HARDWARE," No. 143 Chambers Street, New York.

"IRON CLAD."


ALL MACHINE MADE.

SEE

THIS STRUCTURE? WHAT'S IT FOR?

Well, it gives surprising durability!

Our goods are Guaranteed unsurpassed in Durability, Workmanship, Material.

Their elegance attracts the eye at once.

. . . *FOR FOUNDRIES, PAINTERS, ROOFERS, ETC.* .

SATISFACTION GUARANTEED OR MONEY BACK.

THE BUCHEL BRUSH NOVELTY CO.,

Mention "HARDWARE." NEW ORLEANS, LA.



KEARNEY & FOOT CO. 100-102 Reade Street, NEW YORK.

The BEST Drill on the market.

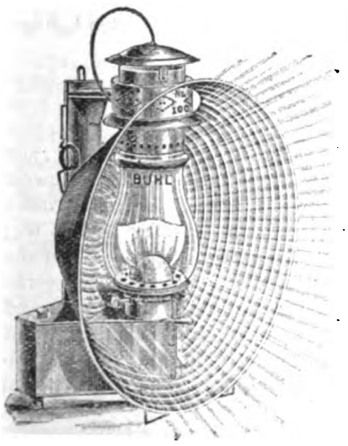
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For Sale by all Jobbers.

Foreign Trade Supplied Direct or Through Exporters.

The Cleveland Target Co.,

Cleveland, Ohio



No. 100 Buhl Tubular Headlight.

This remarkable Lantern will burn 48 Hours in Wind or Rain, on Land or Water. . . . .

16-inch Hood, 7-inch Nickeled Brass Reflector.

6 IN A CASE.

LIST, PER DOZ., $30.00.



A New Departure.


Hot Water Heater, combining Hot Water for Domestic purpose. With six (6) of our special manifolds, one man will cut and thread pipe and set up one in ten hours. Cheapest and best on earth.

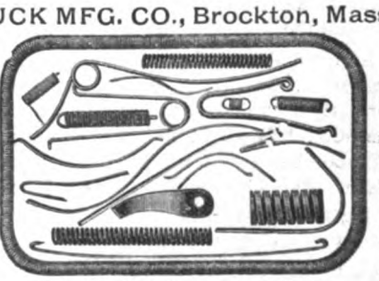
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The C. R. Meres Heater Mfg. Co.,

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Springs, Tools & Cutlery.


Send for Tool Catalogue.

Tempered Springs of all kinds.



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Dow Wire Works Co.,

Louisville, Ky.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Auburn, N.Y.—The Auburn Rex Wrench Co. has been incorporated to manufacture pipe and nut wrenches; capital stock, $5000. Directors: J. C. Schreck, F. A. Van De Water, C. I. Mam, and J. L. Eddy, Auburn; F. J. Jenny, Utica.

Buffalo, N. Y.—The Arnett Mfg. Co., has been incorporated by Silas H. Arnett, Hannah B. Arnett and Abram Bartholomew to manufacture all kinds of Hardware. Capital stock, $10,000.

Chattanooga, Tenn.—The Patten Mfg. Co. has been incorporated by Will R. Patten and G. E. Jamme, for the manufacture of cabinetware for plumbers and coffins. A $5000 plant will be equipped at once, which will employ forty men.

Evart, Mich.—J. Duesler has opened a new axe handle factory.

New York, N. Y.—A. G. Newman Co. has been incorporated to manufacture builders' Hardware and railway car fixtures; capital stock, $150,000. Directors: Charles Rhodes, of Passaic, N. J.; Augustus S. Newman, of Garrisons; William V. Newman, Robert Sparks, and Robinson Hopper, of New York City.

Improved Conditions.

Baltimore, Md.—Matthai, Ingram & Co. are building an extensive addition to their plant at corner of Light Street and Ohio Avenue. It is to be used for the manufacture of improved enamel ware, and for storage of surplus stock.

Detroit, Mich.—Prosperity has struck the Detroit Stove Works. They are now running both night and day for the first time in four years, and have more orders than they can take care of. The night force quit work at 5 A M. and the day force come on at 7. The company are mailing to their friends and customers large pasteboard cards, printed on one side a vivid red, with the picture of a Bengal tiger leaping about ten feet in the air, and the words, "You'd better hurry!"

Indianapolis, Ind. — The Indianapolis Stove Co., which purchased the buildings formerly occupied by the Indianapolis Cabinet Co., has about finished moving and will soon be ready for business at the new place. The plant is modern and thoroughly up-to-date, and has a capacity of about 500 stoves a week. The outlook for fall and winter business is good. About 125 men will be employed.

Lansing, Mich.—As an indication of increasing business, Molitor, North & Moyers, manufacturers of harrows, have been compelled to seek larger quarters, and this morning closed a deal for the large plant formerly occupied by the Michigan Stave & Barrel Co. They will take possession at once. The company was organized a year ago, and did a large business in the Central, Eastern and Middle States, but the volume of business this year increased over fourfold. It means another big manufacturing institution for Lansing.

Lynchburg, Va.—The Maryland Brass Mfg. Co., of Aberdeen, Md.; plant will be moved to Lynchburg, and put in operation in the next sixty days. Its name will be changed to the Lynchburg Brass Mfg. Co., with John S. Slaughter, president; William Hunt, vice-president; E. O. Bayles, secretary and treasurer, and E. S. Whiting, general manager. The company will manufacture all kinds of brass articles, but will devote particular attention to an electric push-button. Capital stock, $20,000.

New Albany, Ind.—The extensive stove foundry of Terstegge, Gohman & Co. is rushed with orders, and the firm has been forced to put a night force to work in order to fill their contracts. The work turned out by this mammoth industry now finds its way to all parts of the United States, and the finest and most satisfactory stoves of all descriptions are turned out by this New Albany enterprise.

North Tonawanda, N. Y.—After months of idleness, furnace B, of the Tonawanda Iron & Steel Works, has been relighted. This is the furnace lighted by President McKinley last November. It has been banked since May, but has been relighted now for good, as the officials of the company put it. About 150 extra men have gone to work, and this force will probably be increased. The big plant is to be run its full capacity to meet the demand for its iron.

Norwich, Conn.—The Richmond Stove Co. is to start up with a full force of men in all the departments. Several important changes have recently been made in the management of the plant. John Mitchell has retired as president, and W. C. Higgins, secretary and treasurer, has resigned on account of ill health. W. S. McMullen, formerly of St. Louis, has been elected to the presidency, and will assume personal management of the concern. T. Guy Hayward has been appointed secretary, and will have charge of the selling of goods. The board of directors includes John Mitchell, H. H. Osgood, Charles Bard, William N. Blackstone, Albert H. Chase, W. C. Higgins and W. H. McMullin.

Scranton, Pa.—The Scranton Axle Works. Capacity of plant has been greatly increased.

Torrington, Conn.—The local manufacturing concerns are showing signs of industrial activity. The Excelsior Needle Co., which has been running on reduced time for some months, is now on full time, and there is general rejoicing among the mill hands. The Coe Brass Mfg. Co. has found it necessary to run nights in order to keep pace with its work, while the Eagle Bicycle Mfg. Co. is running six days a week and orders indicate that this will continue for some time.

Toronto, Ont.—Berlin Brush Co., an institution that was revived a few months ago, now employs 30 men, and finds the demand growing so rapidly that working overtime is looked for very soon.

Recent Embarrassments.

Middletown, Conn.—The A. D. Williams Co., manufacturers of ice cream freezers, have made an assignment to John Winslow, of Bristol.

Recent Fires.

Centralia, Ill.—The agricultural implement and grain warehouse buildings belonging to J. W. Tate have been destroyed by fire. All the contents, including grain, implements and farm machinery, were lost. The fire is believed by nearly all to be the work of an incendiary, as the fire evidently originated from the inside, discovery being made only as the flames burst through the roof.

Rochester, N. H.—The Rochester Foundry & Machine Co. have suffered by fire. This is one of the worst places for a fire in the whole city, the foundry being placed in behind the large Hardware store of Ira B. Moore and the furniture building of Henry Evans. The fireproof roof, however, prevented the spread of the fire, despite the fact that it was a very windy night, and the department soon had it under control. The loss was in the vicinity of $1000, and the insurance amounted only to $600.

Stockton, Cal.—One of our most valuable manufacturing plants was destroyed by fire, when the Stockton Combined Harvester Works were burned. It is a loss of $100,000, on which there was insurance to the amount of $60,000, but the foundry and pattern shop, included in the insurance for $8200, was not burned. It is estimated that the insurance will pay 60 per cent. of the loss of the company. The works were built in 1883, by a company headed by the late L. U. Shippee, and three years ago the company went into liquidation and the valuable plant, filled with costly machinery, was sold to the present owner, a local corporation, for $100,000. This company paid about $25,000 on the purchase price, and are the heaviest losers, for the principal owners are sureties for the purchase money, and must pocket their loss. The owners are R. C. Sargent, B. F. Langford, W. A. Shippee, S. D. Woods and Colonel H. C. Shaw.

Toronto, Can.—A spark from the burning lumber piles at the Central Prison fired the offices of the Graham Nail Works, which are in a two-story frame building just across the railway tracks to the northwest of the burning lumber piles. The office building, which is 50 feet long and 20 feet wide, was, fortunately, separate from the main works. In the end next the works were stored several barrels of machine and coal oil, spare pulleys and machinery, and a quantity of nails. The building was almost completely gutted, and the material destroyed.

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THE BANNER

Is the Cycle Lamp for '97.

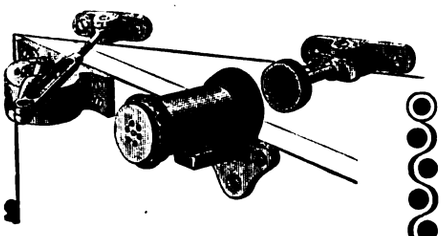
None as handsome, as practical, nor as thoroughly and honestly made. Throws a powerful, broad light, having **a 3-inch optical ground double convex lens.** No lamp so easily cleaned. Has removable top burner and reflector, removable and **reversible oil pot.** The only lamp made with a positive wick-locking device—it acts on the ratchet. Your dealer should have them; until he has will send, carriage paid, for **$3.00,** to any part of the United States.



Rigid Bracket, adjustable to either Post or Fork; Ball and Socket Joint, 50c. extra.
Absolutely Wind Proof.
Will not Jolt Out.
No Solder to Melt.
Fills on Outside Oil Fount.
Solid Brass, Heavily Nickeled.
Burns Kerosene in Packed Fount.
No Splashing.
Handsome Side Lights.

5½ INCHES HIGH.

New York. Boston. Chicago. **PLUME & ATWOOD MFG. CO.** FACTORIES: Waterbury and Thomaston, Conn.



Stores, Dwellings, Churches, Schools

and houses of all kinds require the use of the Eclipse Door Check and Spring. Dangerous drafts cannot enter if doors are shut. The simple, durable, noiseless door-closing Eclipse prevents slamming and banging, and keeps doors closed. It is a profitable device for Hardware dealers to sell. Send for reduced prices and our new advertising matter.

Sargent & Co., Manufacturers,
New York; and New Haven, Conn.

"Copperized" o. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

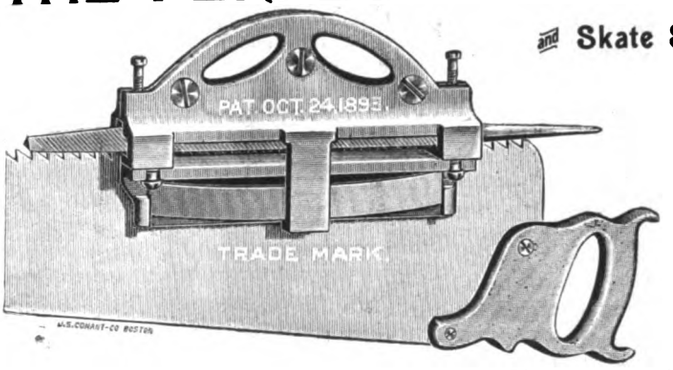
Hot and Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

THE PERFECT SAW JOINTER

and Skate Sharpener.



Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

Hastings & De Baun,

HARDWARE MANUFACTURERS' AGENTS,

124 Chambers St., New York.

NEW YORK OFFICE OF

THE PHOENIX HARDWARE MFG. CO.
MASON & PARKER. J. B. TATEM & SON.
THE BARNES TOOL CO. E. LOUD MFG. CO.

Sterling Emery Wheel Mfg. Co.,

MANUFACTURERS OF

Sterling and Advance Emery and Corundum Wheels,

TIFFIN, OHIO.



JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

A. N. JACOB, 491-493 Broadway, NEW YORK.

THE

MONARCH VAPOR COOKING STOVES

For Hot Weather,
And Embracing—

Cheap Stoves,
Complete Family Ranges,
Portable Ovens

And All Essential Features. . . .



The Monarch Stove Co.,
Mansfield, Ohio, U. S. A.

GEO. F. TAYLOR'S SONS,

80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

ALSO

BONE BLACK

For Tempering, Coloring and Filtering Purposes.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Austin, Tex.—Corner's Book Store has added a stock of bicycles.

Bellflower, Ill —Johnson & Price, Hardware, bicycles, etc.; new firm commenced business consisting of J. D. Price and Samuel Johnson.

Camden, N. J. — Articles of incorporation were filed recently in the Camden County Clerk's office by the Hardware Mfg. & Export Co., to manufacture a general line of Hardware and bicycles. The capital stock of the company is $25,000; the amount paid in is $1000. The corporators are Ralph Campbell, of Philadelphia; Frederick W. Hotchkiss, of New York, and George E. Campbell, of Camden.

Derby, Conn.—The Griggs-Seabury Gun & Ammunition Co. will establish a large plant here, to employ between 300 and 400 hands.

Florida, N. Y.—Crawford Bros., Hardware, will take up bicycles. They have recently enlarged their place of business.

Massillon, Ohio.—John Gow & Co., bicycles, opened new store at No. 81 Main Street.

New York, N. Y.—The Ion Specialty Co. has been incorporated to deal in bicycles, vehicles, engines, motors, electrical devices, etc. Capital, $100,000, and directors, Thomas W. Horn, of Toronto, Can.; Edward H. Power and Edwin J. Johnson, of New York City; David S. Ferris, of New Orleans, and D. W. E. Burke, of Brooklyn.

New York, N. Y.—The Universal Trading Co., incorporated by G. W. Monro, J. E. Fuller and S. S. Sugar to manufacture bicycle devices, mechanical and electrical apparatus, etc. Capital stock, $30,000.

Winder, Ga.—Dabney Hardware Co. will add a line of bicycles, and are inviting propositions from manufacturers.

Changes and Improvements.

Alexandria, La.—Roberts Bros., Hardware, bicycles, etc., new firm composed of C. E. and G. A. Roberts. Propositions from bicycle manufacturers are solicited.

Bridgeport, Conn. — Ellison & Middlebrook, bicycles, reported out of business.

Bridgeport, Conn.—The stock and plant of the Liberty Cycle Co. was sold at public auction recently. Allen W. Paige, of the firm of Paige & Carroll, purchased the place. The sale was, of course, subject to the mortgages. These amount to $15,000, with interest to the amount of $450. The mortgages are held by Paige & Carroll. The price paid was only $700. The bidding was not heavy, but it was lively while it lasted. The first bid made by Mr. Paige was $25. From this it was pushed up the scale by others until at the 26th bid Mr. Paige signified his willingness to give $700. None of the others bid higher and Patrick Coughlin, who was auctioneer, knocked it down to the $700 man. Mr. Paige was not prepared to say just what disposition of the property he intended to make.

Charleston, S. C.—Baird Bros., bicycles, No. 422 King Street, closing out entire stock of wheels.

Faribault, Minn. — E. A. Bradenburg has purchased half interest in the Hardware business of J. C. N. Cottrell and will add bicycles. The style of the new firm will be Cottrell & Bradenburg.

Louisville, Ky.—G. M. Allison & Co., typewriting machines and bicycles, have been succeeded by P. E. Allison, the firm continuing under the same style.

Newport News, Va.—Holt & Watkins, bicycles, etc., have been succeeded by W. H. K. Holt.

Orange City, Iowa.—H. S. Marvin, Hardware, etc., has succeeded M. E. Lewis, and will add a bicycle department.

Peoria, Ill.—The Rouse, Hazard Co. bicycle factory at Peoria Heights, will not shut down this season. They have had a most successful year's business and have very little stock on hand. They are compelled to remain in operation to fill incoming orders and are already preparing for the next season's work, which is expected to be the most successful in the history of bicycle manufacture. A large force of men is already engaged in the manufacture of the tools necessary. These must be ready before the manufacture of the new wheels can be undertaken. The force of toolmakers is being steadily increased and already about one hundred men are employed in the factory. This number will be continually increased until the factory is in full operation.

Rochester, N. Y.—H. S. Searle, manufacturer of bicycles, reported to have been succeeded by Chainless Cycle Mfg. Co.

Stoutland Mo.—G. C. Fuller, sporting goods, sold out to L. S. Palmer.

Tampa, Fla.—Knight & Wall, sporting goods, etc., has been incorporated, and will be known as the Knight & Wall Co. Besides M. L. Knight, the members of the corporation are C. L. Knight, Percy G. Wall, Jr., E. Edgar Wall and S. I. Craft.

Toledo, Ohio.—J. M. Murphy, formerly manager for the Arlington U. Betts Co., has purchased the controlling interest in the wholesale business of the Nelson-Hubbell Bicycle Supply Co., and will at once assume the active management. The deal has been closed, and while no figures are given out, it is learned from outside sources that the stock, fixtures and good-will amounted to $8500.

Torrington, Conn.—The Eagle Bicycle Mfg. Co., whose articles of incorporation only permit them to make bicycles, are taking steps to increase their line, and have applied for an amendment which will give them power to manufacture motor cycles, horseless carriages, horse nails and other lines. The firm have put in the foundations for a large storehouse, to be 150 by 40 feet, four stories high.

Tuscola, Ill.—Bagley Bros., Hardware, removed into larger quarters on Central Avenue, and will add bicycles.

Washington, D. C.—Arlington Cycle Co. has been sold out.

Washington, D. C.—The Carpenter Cycle Co. has succeeded W. Roy Mitchell, at the corner of New York Avenue and 14th Street.

Worcester, Mass.—The Trinity Cycle Co. will remove to Keene, N. H., early in October.

Recent Embarrassments.

Ansonia, Conn. — Royal E. Holbrook, dealer in bicycles, reported attached and made an assignment.

Chicago, Ill.—Davidson Cycle Co., factory closed by mortgagee.

East Brookfield, Mass.—Brookfield Cycle Co. recently assigned. Apparatus of the concern being sold.

Montreal, Can.—Robert J. Latimer, manufacturer and wholesale dealer in carriages, bicycles, sleighs, etc., No. 592 St. Paul Street, has consented to assign, and a demand of assignment has been made upon the Latimer Carriage Co. Mr. R. J. Latimer, who has been in business upwards of twenty-seven years, can attribute his present misfortune at least indirectly to the People's Bank failure. When the crash came, Mr. Latimer had a large line of discount with that institution, and it became necessary to contract his then expanded business. This led to difficulties which have culminated in his consenting to assign. The Latimer Carriage & Implement Co. was incorporated last month with a capital of $40,000. This company was formed by Mr. Latimer and some gentlemen representing his creditors. The liabilities, it is said, will reach $100,000.

Montreal, Can.—The Thomas E. Howard Co., bicycles, etc., insolvent.

Philadelphia, Pa.—The Columbia Tube Co. has made an assignment for the benefit of creditors to Wilson L. Smith.

Pittsburg, Pa. — The Duquesne Tube Works were placed in the hands of Edwin W. Ohl, as receiver.

Springfield, Ill.—Hendee & Nelson Mfg. Co., Wm. C. Brown, vice-president of the Cycle & Tool Mfg. Co., of this city, appointed assignee and ordered to furnish bonds for $7000.

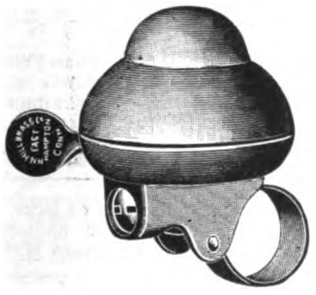
Trenton, N. J.—J. Denver Davies, the bicycle dealer, of No. 14 East Hanover Street, made an assignment recently for the benefit of his creditors, to Joseph A. Herron. His assets are given at $2375, and his unsecured liabilities at $1613.75. The cause of the failure is said to be insufficient business.

Worcester, Mass.—Lincoln Holland, bicycles, reported to have filed petition in bankruptcy.

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STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.



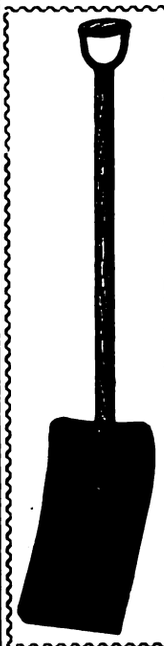
The . . .
"Advance"
line
Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .
Silver's OLD LINE Hand Drills.
Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .
The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.



KOHLER'S 8 in. COAL and FURNACE SCOOP.

Blade 8 inches wide, made from best quality of No. 18 gauge steel. . . Our Cyclone Shovel proved such a success that a demand arose for a narrower blade for furnace use, hence we produced the one here shown.

Send $3.25 for sample dozen.

They go like "hot cakes."

Before you buy Spring Hinges write us.

F. E. KOHLER & CO.,
CANTON, OHIO.

STEEL STAMPS AND DIES,
STENCILS, NOTARY, LODGE AND CORPORATION SEALS.

CHECKS, BADGES,  MACHINERY PLATES.

Burning Brands, Brass Signs, Brass Labels, Models and Moulds for Casting WHITE METAL.

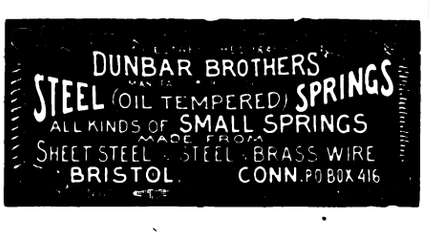
SCHWERDTLE & SIEBERT,
35 Fairfield Ave., BRIDGEPORT, CONN.





COATES CLIPPER MFG. CO.,
Worcester, Mass., U. S. A.
MAKERS OF
Hair Clippers
ALL KINDS UNDER THE
COATES PATENTS.
Power Clippers, both hand & mechanical.
Anti-Friction Horse Clippers.
Barbers Adjustable,
The best made.

-:-SEND FOR CATALOGUE.-:-



Colwell Lead Co.

63 Centre St.
NEW YORK CITY.

Manufacturers of

LEAD PIPE
SHEET LEAD

American Standard

DROP **SHOT** BUCK

Also Wholesale Jobbers in

Wrought Iron Pipe, Cast Iron Soil Pipe, Water Closets, Brass Plumbing Goods, and everything else to plumb a house from cellar to garret.

OHIO METAL CO.,
NORWALK, OHIO.



Awarded the Medal at Atlanta Exposition

Incorrodible Steel Hitching Post, ornamental and lasts a lifetime.

Automatically takes up slack of chain.

Freedom and comfort for animal. Safety and security for owner.

Ready Sellers.

Write for prices and secure exclusive agency for your city.

Howard Iron Works,

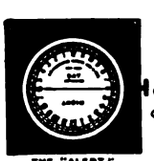
BUFFALO, N. Y.

Manufacturers of

Bench Vises.

Price Lists sent on application.

Headquarters
FOR
ELECTRIC and PORTABLE
Watchman's Clocks.
Lowest Prices. Latest Improvements.
PATENTS 1885-1895.
Write for Price List and Card showing difference between N. Y. time and local time in all parts of the world





THE "ALERT."
This is a One (1) Station Watchman's Clock. Price, with 100 paper dials, complete, . . $32.50

E. O. HAUSBURG, 41 Maiden Lane, New York.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $6.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
—HIGH GRADE.—
Price per gro. $5.00.
OVAL, BEVELED, TRILATERAL, HEXAGON.
J. D. JOHNSTON, Newport, R. I.

DEAN LINSEED OIL COMPANY LINSEED CRUSHERS.
181 Front Street, NEW YORK.

WILL BUY PATENT
Of satisfactory article handled by Hardware trade; prefer article made from wire but other good articles will be considered. Address with particulars
THE MALIN & CO., Cleveland, Ohio.

PRIEST'S CLIPPERS
BALL BEARINGS
Largest Variety. Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA


Star Lathes ★ Foot power, Screw cutting, Automatic Cross feed
9 and 11-inch Swing.
—New and Original Features.—
Send for Catalogue B.
SENECA FALLS MFG. COMPANY,
334 Water St., Seneca Falls, N.Y.

HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.

Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
GENEVA, OHIO.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
594 Washington Street, Boston.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application

. . . HEARTILY RECOMMEND "HARDWARE."
E. T. Barnum, Detroit, Mich. [*Wire Goods*]: We heartily recommend HARDWARE to those desirous of reaching the largest number of dealers.

BEEN WITH YOU FROM THE BEGINNING.
Union Metallic Cartridge Co., New York. [Ammunition]: We have been with HARDWARE as advertisers from the beginning and expect to continue.

One of the Best Mediums Known.
C. T. Williamson Wire Novelty Co., Newark, N. J. [*Corkscrews*]: To present new goods to the trade we consider HARDWARE one of the best mediums known.

BEST INVESTMENT EVER MADE.
Divine Bros., Utica, N. Y. [Buffing Wheels]: Our advertisement in HARDWARE was the best investment we ever made in the advertising line.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

W. W. Lawrence & Co. Pittsburg, manufacturers of white lead, paints, colors and varnishes, want several salesmen for Ohio, Indiana, Michigan and Pennsylvania. Young men preferred.

A FIRST class heavy sheet iron worker, who understands the laying off difficult patterns, and who can work well on high structures, and, if necessary, take charge of a gang of men. DOW WIRE WORKS CO., Louisville, Ky.

BOY wanted, about 15 years old; must have had experience in a retail Hardware store, be quick and bright; address by letter only, stating age, references, and salary to start. Address HARDWARE STORE, No. 2195½ Third Avenue, New York City.

WANTED—First-class traveling salesman to canvass manufacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

WANTED by a practical mechanic, with a good education and 17 years' experience in working iron and steel, managing help, buying of mill supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport Conn.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., care HARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

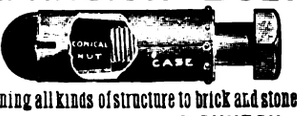
WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York

POSITION by a young man. Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No 6 E. Fulton Street, Johnstown, N. Y.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County. New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

$300 to invest with a position as manager or buyer. Age 27. Seven years experience with one of the oldest and best known wholesale Hardware firms on Chambers Street, New York. Make an offer if you are open for push and stick-to-business methods. Address 412, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by thoroughly experienced man either as clerk or salesman; first-class references. Address G. B. W., No. 28 South Fifth Avenue, Mount Vernon, N. Y.

ADVERTISING manager and writer of ability and experience, position as advertising manager of general or special line. Mail orders a specialty. Is willing to do other work in conjunction, if desired. Address WIMBROUGH, No. 638 Bourse Building, Philadelphia, Pa.

YOUNG man 30 years of age wants position in store or road. Nine years experience in Hardware, stoves and hot air furnaces. Can figure estimates from plans and specifications. Good bookkeeper. Fine penman. A No. 1 reference as to honesty, sobriety, etc. Address LOCK BOX 34, Jeannette, Pa.

POSITION wanted by a practical man, who has held positions as tool maker, foreman and assistant superintendent. Up on modern methods and able to get out work at lowest cost. Address FREMONT, care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 39 years, of long experience both wholesale and retail, able to act as salesman, stockkeeper, bookkeeper or manager, speaking and corresponding in English or German, desires a permanent position. Best references. Address CHARLES KREINBERG, No. 108 East Houston Street, New York.

BY a practical mechanic, experienced in manufacturing patented and builders' Hardware and specialties, well up in modern shop methods. Competent to get out work cheap, etc. An expert workman at bench. and a hustler. Address EXPERT, No 3029 Poplar Avenue, Chicago, Ill,

THOROUGHLY experienced bookkeeper and office correspondent desires situation as accountant or cashier in a Hardware house. Highest references. Bond furnished if desired. Address COMPETENT, care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. Box 1464, Boston.

EXPERIENCED Hardware salesman with large acquaintance in the South, desires position as traveling salesman to represent Hardware manufacturer or commission house. Is a native of the South and has about twenty years' experience on the road. Would be willing to take other territory than the South. Unexceptionable reference given. Address "HARD WORKER," care HARDWARE, No. 143 Chambers Street, New York.

POSITION by young man of ten years' experience in Hardware business. Have had experience both on road and in store. J. E., care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

LINE of legitimate Hardware wanted by traveling man of 12 years' experience with established trade through Iowa, Minnesota and Wisconsin. A No. 1 references. Address G. 100, care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

SALESMAN visiting jobbing Hardware trade in Canada desires good line of goods on commission. Address N. M. 503, care HARDWARE, No. 143 Chambers Street, New York.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

Side Line Offered.

SALESMEN wanted calling on the Hardware trade to handle our line of high grade lubricating oils, greases and specialties as a side line. Liberal terms to reliable parties. Address THE A. F. VOAK OIL CO., Cleveland, Ohio.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

Side Line Offered.

WE want salesmen visiting Hardware and harness trade to sell our new line of chain goods and sheet steel snaps. Great sellers! State present line; references, territory. IRA F. WHITE & SON No. 76 Park Place, New York.

WE offer good side lines to those calling on Hardware, harness, carriage manufacturers and department stores, both wholesale and retail. Address FERNALD MFG. CO., North East, Pa.

A Business Wanted.

$200 to invest with Lathe and Tools for mechanical repair work in small Hardware store. Will buy business on easy terms. Age 26. Eight years in wholesale and retail Hardware in New York City. Address 500, care HARDWARE, No. 143 Chambers Street, New York.

For Sale.

A good chance for business. $2,000 will buy stock and fixtures of a well established Hardware store, in a live and growing town of about 5000, in New Jersey, and numerous small towns around. Good business can be done. Proprietor has other business and cannot give his entire attention to it. Address C. B., care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S. M. care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE at a bargain, a Hardware stock and fixtures, established thirty years in a city of 100 000 inhabitants. A grand opportunity for any party who knows a good thing when he sees it. For particulars see or address WHITE & CONANT, Worcester. Mass.

FOR SALE or on royalty to Novelty Concerns, a combination rigid and flexible coaster. Nothing like it. Cheap to manufacture. Thousands of them wanted. Boy's delight. A Klondyke for the party that gets it. Write quick for cuts, etc., to B. F. HOOK. Holmesville, Ohio.

ESTABLISHED Hardware, stove, tin-shop. Largest in town. Good bargain. Particulars to parties interested. Address BROWN BROS., Montgomery, N. Y.

GENERAL Hardware Store, established on leading thoroughfare, Brooklyn. Good opening for a live man. Address K. care HARDWARE, No. 143 Chambers Street, New York.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address Box 99, care HARDWARE, No. 143 Chambers Street, New York.

AN old reliable Hardware business in one of the most prosperous county seats in Ohio. Nice clean stock. This is a first-class opportunity for one or two persons to step into an established and profitable business Address immediately, MEEKER BROS., No. 85 North High Street, Columbus, Ohio.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10.000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

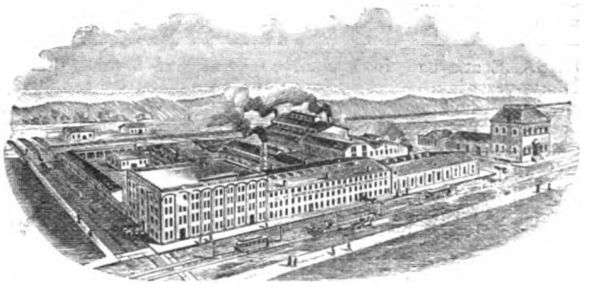
Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.



COVERT MFG. CO.,
WEST TROY, N. Y.
Derby Snap,
With Plated, Rust Proof and Guarded Spring.
"The latest and best."
For sale by Jobbers at Manfrs. prices.



WHERE BOOMERS ARE MADE.

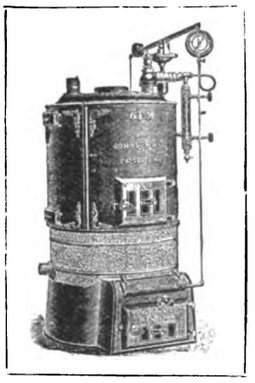
EVERY ARTICLE
of our make bearing the name Boomer is guaranteed FIRST CLASS in every respect.

BOOMER FURNACES

SUCCESS BOOMER, BOOMER OAK,
BOOMER STEEL RANGE, BOOMER CANNON STOVE.

When wanting a Furnace or Stove why not buy one that has been thoroughly tried and tested.

HESS, SNYDER & CO., Mfrs.,
MASSILLON, OHIO.



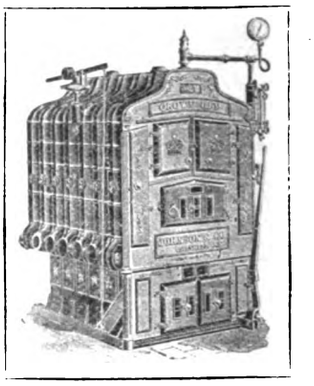
GEM and ECONOMIST HEATERS.

FOR HOT WATER and STEAM HEATING.

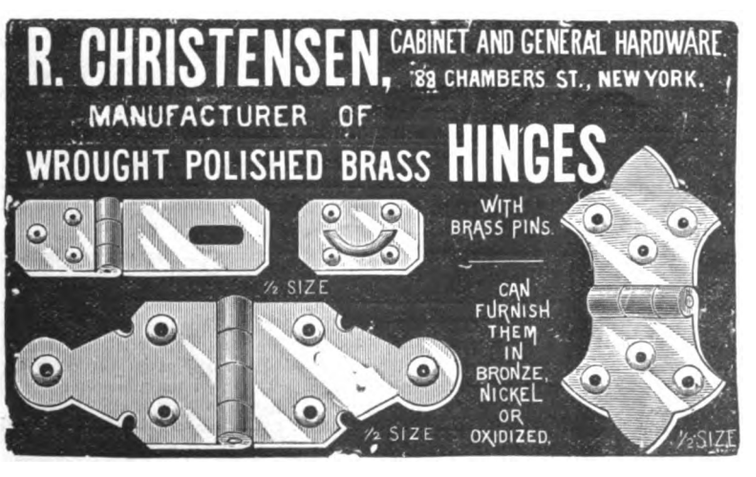
GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

MANUFACTURED BY
JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.



PARKS STOVE
POLISHING MITTEN.



Best Made.
Write for Prices.
PARKS & PARKS, TROY, N. Y.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters..... } 40&12½%
Ship Carpenters..... }
Railroad. .....

Ammunition—

CAPS, PERCUSSION—$ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—

Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bullets...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—

Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—

First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....20&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.....65&2%

SHELLS, LOADED—

With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—$ 1000—

B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&5%

SHOT—

Drop Shot, sizes smaller than B, 25-lb bags $ bag.....$1.25
Drop Shot, sizes smaller than B, 5-lb bags, $ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, $ bag.....$1.50
Drop Shot, B and larger sizes, 5-lb bags, $ bag.....$ .35
Buck and Chilled Shot, 25-lb bags, $ bag.....$1.50
Buck and Chilled Shot, 5-lb bags, $ bag.....$ .35
Dust Shot, 25-lb bags, $ bag....$2 00
Dust Shot, 5-lb bags, $ bag....$ .50
Jobbers frequently deduct 5@10 cents $ bag.

POWDER—

Laflin & Rand:
Orange Rifle Ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Ducking, kegs 6¼ lb 2 25
[For 1000 lb lots 10% discount.]
Blasting and Mining, A..25 lb 2.25
Blasting and Mining, B 25 lb 1.50
Laflin & Rand W.-A. Smokeless.
Sing e Canisters $1.00
10 Can Drums.....$9.00
Discounts on applica ion.

CANISTER POWDER—

E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—

Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—

Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black..... 41.00
Drum, equal in bulk to 100 lb, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—

Cleveland Target Co.:
Blue Rocks $ 100 .....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montrose, Galien, Mich.:
Camp's Success.....$ doz. $3.80
Galien Safety.....$ doz. $3.75
Hartman's Pivot.....$ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....$ doz $3.25
Western.....$ doz. $3.75

Anti-Rattlers—

Fernald, Wire....$ doz. pairs. .75
Burt n's, No 2....$ doz. pairs. .75
Burton's, with bolt holder, No. 1.....$ doz. pairs. $1.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, $ lb 9c.....1b@15&5%
Hay-Budden, Wrought.... 8¾@8¾c
Peter Wright's.....9¾@10¼c
Samson..... 8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—

Cheney Anvil and Vise..... .....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..20%

Augers and Bits—

Boring Machine .....70&10@75%
Cincinnati Tool Co.:
Bell hangers' bit.....40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug..... 25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common.....70&10@75%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. 10 Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—

Bonney's Adjustable, No. 4, $14.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—

C. E. Jennings & Co.....33⅓%
Cincinnati.....35&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00 .....45%
Ives' Model, $ doz. $60....50@50&10%
Steer's No. 1, $28; 2, $18.....40%
Stearns' No. 2, $48.....20%
Swan's.....40@40&10%

GIMLET BITS—

Diamond $ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, $ gro. $2.75 @$3 25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—

Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—

Cleveland.....60&5@60&10%
Morse Twist Drills.....60&5@60&10%
New Process.....60&5@60&10%
Standard .....60& @60&10%
Syracuse.....60&5@60&10%

SHIP AUGERS AND BITS—

L'Hommedieu's.....15&10%
Snell's .....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, $ gr.....$3 00@$3.25
H'ld Scratch $ gr.....$3.75@$4.00
Pat. Peg $ gr..... 8@35c
Sewing, Com.....$ gro., 85c@$1.00
Should. Peg $ gr.....$1.35@$1.45
Shouldered Brad. $ gr...$1.50@$1 65
Socket Scratch $ doz. ..$1.0 @$1.10
Stanley Rule & Level Handled Brad..... .....40&10%
Patent Pegging.... .....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 $ doz. $7.50; No. 20, $ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $13; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. No. 1, $12; 2, $12; 4, $12; 5, $18.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.00; 45, $4.50; 65, $6 00; 75, $9.00; 175 $10.00 $ dozen net

Axes—

First quality, best brands. $5 00@5 25
First quality, other " $4.50@4.75
Beveled add 50c $ doz.

AXES, HANDLED—

Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz , $9.00
Firemans'.....per doz., $25.00

HATCHETS—

Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....40%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
$ doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....$ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....35%
Tinned, each, $7.50.....20%

Bells—

HAND—

Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—

Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's .....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....60%
New Departure.....45@50%

COW—

Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.;
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable .....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati..... 25&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..$ doz. $6, 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 $ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular .....40&5%
Extension:
Barber's, $ doz. $15.00.....45%
Ives' $ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..$ doz. $3..33⅓@33⅓&10%
Excelsior..$ doz. $10.00....50&10&2%
North's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy $ gro. sets.....$5.50
Gorhams Improved Star Tenon $ gro. $1.00.....25%
Merriman's Brass Lever $ gr. $15.00
Merriman's Iron Lever $ gr...$9.00
Millers Falls $ set $1.00.....15&10%
Security Gravity $ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate $ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....30%
Perfect Safety.....30%
Stowell Novelty Block.....50&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75@75&10%
Wrought Square..70&10@70&10&10%
Wr't Shutter, Standard list.....70%
Wr't Shutter, Sargent's list... 70%
Wr't Sunk Flush, Sargent's list. 50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@5. &10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%
Window Spring.....75%
Window Spring Bolt Socket.....70%

CARRIAGE, MACHINE, &C.—

Bolt Ends.....80@80&5%
Machine.....75&10@80%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..80&10@80&15%
Phila., Eagle, list $3.00.....85%
R. B. & W., $2.40 list.....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96. 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96..85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 26, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—

Plow.....60&10&10@70%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—

Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....30%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls		7.50 15&10%
Other Machines	2.25	2.50.....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 106@114½.....60&10%
No. 208½@214½.....60%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@30%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
L. & I. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@40&10%

CAST IRON—

Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow.....
Fast Joint, Narrow.....
Fast Joint, Light Narrow.....
Fast Joint, Broad.....
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..
} 75%

Can Openers—

American.....₩ gross $1.75@$1.90
Champion, ₩ doz. $3.00.....50%
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $12.00.....35%
Dunlap's Sardine Scissors, ₩ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ₩ gr. $8.00; ₩ doz.75c
No. 5, Iron Handle, ₩ gr....$2.00@2.25
Sardine Scissors...₩ doz. $2.0 @2.25
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz.75@suc
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal....
Grand.....
Grand Rapids.
Hall.....
Prize.....
Premier.....
Superior.....
} Cyco-Bearing ₩ doz. $24.00 ₩ doz. $36.00 ₩ doz. $22.00 ₩ doz. $60.00 ₩ doz. $24.00 ₩ doz. $24.00 ₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $21.00
Furniture Protector, Japan.....₩ doz. $24.00
Furniture Protector, Nickel.....₩ doz. $27.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Housewife's Delight..₩ doz. $15.00
Parlor Queen, Jap....₩ doz. $24.00
Parlor Queen, Nickel, ₩ doz. $27.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $7 00
Little Queen.....₩ doz. $4.00
Misses.....₩ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phœnix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—

American.....60&10%

Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—

American Coil, Ass'n base prices.
3-16 ¼ 5-16 ⅜ 7-16 ½ ⅝ ¾
$6.85 5.35 4.25 3.65 3.50 3.35 3.15 3.05
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....6 &20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&10%
German Halter Chain....60&10@7 %
Jack Chain, Iron.....70@70&5%
Jack Chain, Brass.....70@70&5%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10@60&10&10%

Cherry Stoners—

Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10&5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—

Box.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....25 to $
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....20%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $3.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's...45&10%
Carpenters', Cincinnati .....25&10%
Carriage Makers', Sargent's..50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....35&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...35&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....30%
Barton's.....30@30&5%
Beatty's.....33⅓%
L. & I. J. White.....30@30&5%
Sandusky Tool Co.....35&10@30&10%
Shaves, Cincinnati Tool Co.....30%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg. Co. 40& 10@50%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....35@35&10%

Counter Sinks—

Adjustable.....20%
Counte sink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....30%
Dixon's
Eclipse.....₩ gro. $2.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.81
Solid.....₩ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)..50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₩ doz $1.25@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....25%
Douglass.....75@75&10%
Jennings & Griffin.....75 & 5%
Merrill & Wilder.....60&10%
Mix.....
New Haven.....
P. S. & W.....
Witherby.....
} 75& 10& 5%
Watrous.....30@30&10%
L. & I. J. White.....2.25@25%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$15.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....40&10%

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Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓&5%
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....20@30&5%
Ratchet, Moore's Triple Act.35@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....20&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓&5%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No 15..... ₩ gro. $21.00
Paine, Diehl & Co.'s Keystone .33⅓&5%
Spiral.....₩ gro. $4.35@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical,$8.50 ea., less 50%
Batteries, Dry .....50c. ea., less 50%
Bells Electric, 2½ 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric. $1.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5 c. ea., less 5 %
Gravity Batteries, $1.00 ea.. less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt.... 24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea , less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 8'c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10 00 each, less 50%
Window Springs, Electric...24c each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 5%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, CF FF.
Kegs, ₩ lb..4½c	5c	3c	
½ kegs, ₩ lb.4½c	5½c	3½c	
¼ kegs, ₩ lb. 5c	5½c	3½c	
10 lb cans, 10 in case.... 6c	6½c	5½c	
10 lb cans, less than 10.. 10c	10c	8c	

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....6@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....6%
Frary's Pat. Petroleum.....60&10&7%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.....	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.....	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over).....	5.50	6.50	7.00
Dairy Pails, 14 qt.....	3.20	3.80	4.30
Fire Pails, 14 qt., stenciled "fire.....	3.40		
Fruit Bowls.....	1.20	1.70	2.00
Keelers, 11⅛ inch.....	2.30	2 80	3.10
Milk Pans.....	1.50	2.00	2.20
Mats, 8⅛ inch (for table use).....	.50	1 00	1.20
Mats, 15 inch (for cuspidores, etc.....	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover).....	6.50		
Pitchers, 10½ in. high..	4.00	4.70	5.20
Peck Measures.....	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt ..	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8⅛ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10⅛ in., (detachable covers).....	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4 00	4.50
Wash Basins (10⅛ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2. 0
" (13⅛ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls,.....	2.30	2 90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4 00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓&5%
Second Quality Files.....80@80&5%
Tiger.....70%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00 No. 2, $2.50 No. 3, $1.50 No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (60c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure 5 and 6 tine ..... 70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....7 &10%
Polished, regular goods...75@75&10%
Standard List.....75&10@&5%

No.....	0	1	2	3
₩ doz..	$3.00	$3.75	$4.25	$4.75 $5.25
No.....	5	6	7	8
₩ doz.....	$6.00	$7.00	$8.00	$9.00

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel..... .....50%
Boss, Screw Pitch..... .....33⅓&5%
(Clapboard 20%
Marking, Mortise, &c..60&10@60&5&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch .....25&10%
Copeland Champion Bit ₩ doz $2.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S & W., low list ... 10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12 .....25@25&10%
Bell Hangers 50%
"Diamond" Gimlets ₩ gr. $4.00@4 25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₩ gr. $1.50
Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets
Assorted 1, 2 and 3.....₩ gr. $3.00
Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....40@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....20%
P. S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Woodine 40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....5 &10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25. 1.50&1.75 .....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail .....40&12½%
Engineers & B. S. Hand.... 0&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....10&10@&%
Sargent's New List .....45@50%
Verree.....50&10@&%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c
3 to 5 lb.....₩ lb 35c } 75@75&10%
Over 5 lb.....₩ lb 30c
Wilkinson's Smiths....9½c@10c₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....	$ .90	1.00	1.08	1.35	1.50

50&10@10.
Drawer Handles.....60%
Ring Handles.....70%
Rowdin's Latches.....50&10&5%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock . .50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.62
Japanned, with Plate $1.00
Japanned, without Plate 80c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....60&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@ 0 &10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted .....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 3¾.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl .....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00
Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2 00@2.25
Hammer, Hatchet, Axe, Sledge, etc .....60&25
Hoe, Rake and Fork60&10@60&10&5%
Saw and Plane.....40&10&50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00.. ...60&10&10%
Cronk's Steel cov'd Loose Axle, 60&10&10%
Davis Parlor Door .....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6 &5%
New Model.....4 &1%
Parlor, Standard.....4 &1%
Standard .....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $14.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 63½c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....10&10
Climax.....55%
Interstate.....60&15%
Magic 50%
Matchless Covered.....60& 0%
Wild West.....5%
Zenith.....55%
Baggage Car Door .....33⅓&5%
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&2½%
Warner's Pat.....20&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....55&10@35&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&5&7½%

Hedge Shears—
Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T ..... 75@75&5%
Rolled Blind Hinges Nos. 33 and 34 50&10@50&10&5%
Rolled Plate, Rolled Raised .... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb., 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb. .2½c; 14 to 20 in., ₩ lb. .2½c; 22 to 36 in., ₩ lb. .2 c
Strap and T ..... 75@75&5%

SPRING HINGES—
Acme ..... 30@10%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts 40%
Gem ..... 30&10%
Keil's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $18.00
Oxford ..... 30&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single ..... 70&10%
Japanned Surface, Double ..... 60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 20%
Union Mfg. Co 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $18.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense ..... ₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E. ..... ₩ doz $7.80 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State ..... ₩ doz $4.90 ..... 60@60&10%
Reed's Latch and Hinges ..... ₩ doz $13.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3 ..... 60&10@60&10&5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1¼, 2, 2½, 3 ..... 80&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 80&10%
Nos. 40 and 50 ..... 80%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13 ..... 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 60&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 80& 0&5%
Champion Gravity Lockin , No. 7 ..... 60&10&10%
1888, Old Pat'n, Nos. 1, 3 and 5, 60&10%
Tip Pattern, Nos. 1, 3 and 5, 60 10&5%
Double Locking, Nos. 20 and 25 ..... 75%
Empire, Nos. 10 and 101 ..... 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80 10%
Noiseless, Nos 50, 60, 65 and 65 ..... 80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 060, 45 and 5½ 75 5%
Steam oat Gravity Locking, No. 10 ..... 80&10&5%
Stanger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.30 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.75 net
Crescent Cultivator, 7 in. ₩ doz. $4.00 net
Crescent Double-Bit 4 dos. $4.00 net
Cruciole Cut-Easy ..... ₩ dos. $4.50 net
Cotton ..... 80& 12½%
Dunlap's Boys', Ladies', Toy 30%
Garden, Mortar, &c ..... 75&25%
Iowa Crucible Socket ..... 75&25%
Magic ..... ₩ dos $4.00
Mattock Hoe ..... ₩ doz. $4.00 net
Planter's ..... 80&20%
Texas Cut Easy ..... ₩ dos. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 60&10@70&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes ..$3.60@$4.00
Ringers ..... ₩ doz. 5 @85c
Perfect Rings ..... ₩ gro. 90c
Perfect Ringers ..... ₩ doz. $1.00

Hollow Ware—

IRON—
Granite and Agate-Ware ..... 40&10%
Ironclad Enameled-Ware ..... 60&10&10%
Rustless Hollow-Ware ..... 60@60&5%
Stove Hollow-ware:
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%
White Enameled Ware:
Boilers and Saucepans ..... 62½@65%
Maslin Kettles ..... 75&5@75&10&5%
Tinned Boilers and Saucepans ..... 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—

BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list ..... 60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list ..... 5 &10%
Coat and Hat, Sargent's list ..... 50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list ..... 50@50&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.35
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme ..... 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.60; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Wniffletree ..... ₩ lb 4½c

Horse Nails—

	Nos. 6	7	8	9	10
A. U. ..... 40&10%	26c	28c	22c	21c	21c.
American, all sizes, 9½@10c ..... net					
Ausable ..... 40&10&5%	28c	26c	25c	24c	23c.
Anchor 40%	23c	21c	20c	19c	18c.
C. B. K. 40%	25c	23c	23c	21c.	21c
Capewell ..... 10&5%	19c	18c	17c	16c	16c.
Champlain ..... 40&5&3%	28c	26c	25c	24c	23c
Clinton Fin ..... 30&10&5%	19c	17c	16c	15c	14c.
Empire Bronzed 10c					
Essex ..... 40&10@50%	28c	26c	25c	24c	23c.
Lyra ..... 50&10&5%	9½c	9½c	9½c	9½c	9½c., net
Maud S ..... 50&10&5%	35c	33c	32c	31c.	31c

	Nos. 6	7	8	9	10
Northw't'n. 25&10@25&5%	23c	21c	20c	19c	18c.
Putnam 25%	23c	21c	20c	19c	18c.
Snowden, 9½c 9½c 9½c 9½c 9½c., net					
Vulcan 25%	23c	21c	20c	19c	18c.
Western, 5 to 10d 9c					

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 40&10%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick ..... ₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20 ..25%
No. 34 ..... ₩ doz. $15.00 ..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ dos. $1.50 ..20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives ..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.35@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ dos. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel ..... ₩ doz. $1.70@1.80
Drawer, Porcelain ..... 60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ dos $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.00
No. 2 0 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L. ..... 70&10%
Styles A., and E. ..... 60&10%
Styles, D., D. O. W., M., S., T. ..
Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 25%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co. Philadelphia Lawn Sprinkler: No. 1, No. 2, No. 3, ₩ dos. $12.00 $15.00 $24.00 ..25%

Lemon Squeezers—
Berger Bros. ₩ dos. 6-in. $1.00; 10-in. $1.40 ..... 20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $5.25; 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ dos. $3.75 20%
Hotchkiss, Straight Flush ₩ dos. $3.60
Jennings' Star ..... ₩ dos. $1.90@$2.10
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood ..... ₩ dos. $3.00 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60 &10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 25&10%
Iron Bench, new design ..... 25&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's 50%
Cotton Chalk, 20 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50 ..... 10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $5.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $3.25; No. 19, $3.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 50&10%
Champion Night Latches 40%
Diets Flat Key 30%
Mallory, Wheeler & Co ..... 60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 30&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Diets:
Nos. 22 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 35%
Stoddard Lock Co ..... 30@35&5%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Diets 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 9 ..... 40&5%
Scandinavian ..... 20&40@20&40&10%
Smith & Egge Bicycle 50%
Wrought Iron ..... 75@30%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 35%
Eagle 35%

Mallets—
Sargent's List
Hickory ..... 50@25&10%
Lignumvitæ ..... 50@25&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters—

American 30%
Nos. 1 2 3 4 B 5
Each. $5 $7 $10 $25 $60 $60

Beef Shavers (Enterprise) 30%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00

Dixon's ..... ₩ doz 33⅓%
Nos. 1 2 3 4
$14 $17 $19 $30

Enterprise 35%
Nos. 10 12 22 32 42
Each. $3 $3.50 $4 $6 $15

Hales Pattern ₩ doz ..... 70@70&5%
Nos. 11 12 13
$27 $33 $45

Home No. 1. ₩ doz $35 ..... 60%
Little Giant ..... 50&10%
Nos. 305 310 312 320 322
$35 $48 $44 $72 $68

Miles' Challenge ₩ doz ... 45@45&10%
Nos. 1 2 3
$23 $30 $40

Perfection ..... net
Woodruff's ₩ doz 33⅓%
Nos. 100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name. ..... ₩ lb..18c
Mystic ..... ₩ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise 20%

Mop Wringers—

Matchless (Canton, O.), ₩ doz. $12.00

Nails—

WIRE AND CUT NAILS—

See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1893 ..... 67½%
Grand Crossing Tack Co. List:
Wire Brads 80%
Wire Nails 80%

PICTURE—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent 40%
Porcelain Head, Comb'n list, 40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze 10%
China 25%
Fire Gilt 10%
Plain 40%

Nail Pullers—

Black Hawk, per doz $9.00
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00 ..... 30&5%
Lightning ..... ₩ doz $18.00, 20%
National 40%
Pelican ..... ₩ doz $9.00, 15&10%
Scranton No. 2 ..... ₩ doz. $10.00
Scranton No. 3 ..... ₩ doz. $9.00

Nail Sets—

Buck Bros. 27½%
Cannon's Diam'd Point ₩ gr. $12, 25%
Dunlap's 20%
Humason's ..... 50&10%
Hunters' Cup Point Knurled ..... ₩ gro. $10.00
Hunters' Cup Point, Plain ..... ₩ gro. $9.00
Round, assorted ..... ₩ gr. $3.00@3.25
Square ..... ₩ gr. $4.00@4.25

Nippers—

Acme 50%
Smith's Cutting 50%
Todd's Cutting 50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00.. 40%
Turner & Seymour Mfg. Co. 50%

Nuts—

Cold Punched, Square, off list. $5 40
Hex, off list $5 70
Hot Pressed, Square, off list.. $5.90
Hex, off list $6.70
Tapped 50%

Oilers—

Brass and Copper ..... 50&10%
Cushman & Denison's:
Pocket Oilers ..... ₩ doz. $1.65
Star Pocket Oilers ..... .75
Draper's:
Brass ..... 7[illegible]&10%
Steel ..... 70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list ..... 50&10%
"Paragon," Brass ..... 50&10@60%
"Paragon," Zinc ..... 70@7[illegible]&10%
Tower & Lyon Bicycle 25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust 75%
Zinc and Tin ..... 70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ₩ lb 60
Rosy Red 60
Extra Green Paper Wrapper, ₩ lb ..... .50
No. 1 ..... .40
No. 2 ..... .30

Pike's Washita Round Edge Slips: 3 to 5x1¼ to 2¾ to ⅝ at back, ⅛ to 5-16 edge ₩ lb:
Lily White ..... .90
Rosy Red ..... .90
Extra, same sizes as above ..... .80
No. 1 ..... .70
No. 2 ..... .40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ₩ lb ..... .70
Discount 33⅓%.

Pike's Washita Mounted No. 1:
2x2, ₩ doz $12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.

Pike's Washita Axe Stones:
About 2x2x¾ to 1¼, ₩ lb ..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston" 60%
"Excelsior" Self-Vulcanizing, per lb 70c 40%
Boston "Phœnix" Red Sheet, per lb 50c.net
Extra ..... 60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing ..... 9c@10c ₩ lb
Cotton Packing ..... 14c@15c ₩ lb
Italian Packing ..... 12c@14c ₩ lb
Jute ..... 6c@7c ₩ lb
Russian Packing ..... 13c@14c ₩ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance ..... ₩ doz $4.50
Baldwin ..... ₩ doz 5.00
Bonanza ..... each 5.00
Daisy ..... ₩ doz 3.50
Dandy ..... each 7.50
Eureka, 1893 ..... each 16.00
Family Bay State ..... ₩ doz 12.00
Favorite ..... ₩ doz 5.00
Gold Medal ..... ₩ doz 4.00
Ideal ..... ₩ doz 4.00
Improved Bay State. ₩ ds.. $37@80.00
Little Star ..... ₩ doz 4.00
Monarch ..... ₩ doz 13.50
New Lightning ..... ₩ doz 5.50
Oriole ..... ₩ doz 4.00
Penn ..... ₩ doz 8.00
Perfection ..... ₩ doz 4.00
Pomona ..... ₩ doz 4.00
Reading, 72 ..... ₩ doz 4.00
Reading, 78 ..... ₩ doz 7.00
Rocking Table ..... ₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable ..... ₩ doz 4.50
Victor ..... ₩ doz 13.50
Waverly ..... ₩ doz 3.75
White Mountain ..... ₩ doz 4.00

POTATO—

Antrim Combination .... ₩ doz 5.50
Hoosier ..... ₩ doz 13.50
Saratoga ..... ₩ doz 5.50
White Mountain ..... ₩ doz $4.50

Pencils—

Dixon's:
Carpenters' ..... ₩ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead ..... ₩ gro. 9.00
Lead ..... ₩ gro $4.50
Lumber ..... ₩ gro. 6.37
Mascot, Hexagon ..... ₩ gro. 3.38
Mascot, Round ..... ₩ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00 ..... 70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality 55%
Bench, Second Quality .... 60@60&10%
Fales Bench 25%
C. E. Jennings & Co. ..... 50&10%
Molding 50%

IRON PLANES—

Chaplin's Iron Planes ..... 50&10%
Davis's Iron Planes ..... 40@40&10%
Gage Tool Co.'s Self-Setting.... 35%
C. E. Jennings & Co.'s Iron [illegible]5 & 10%
Meriden Mal. Iron Co.'s.. 40@40&10%
Sargent's ..... 60@60&10%
Siegley's:
Bench 40%
Combination, each ..... $4.50 net
Standard Tool Co. ..... 50@50&5%
Stanley Rule & Level Co.:
Bailey's.. 50&10&10@50&10&10&5%
Miscellaneous ..... 25& 10%
Steer's Iron Planes.. 50&10@50&10&5

PLANE IRONS—

Auburn "Thistle" ..... } 30&10@40%
Ohio ..... }
Sandusky ..... }
Buck Bros. 30%
Butcher's ..... $5.00@$5.25 to £
Hinsdale ..... 25&10%
C. E. Jennings & Co. ..... 25&10%
Stanley Rule & Level Co. ..... 50&10%
L. & I. J. White ..... 30&5@25%

Pliers and Nippers—

Button's ..... 70&10@70&10&5%
Carew's Pat. Wire Cutters 25%
Cronk's:
Button Pattern 70%
Gas Pliers, No. 100. ..... 40%
Stubb's Pat. Pliers 50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13 50; No. 4, 7 in. $21.00.... 40&10%
Hall's Pliers 70%
Humason & Beckley Mfg. Co. 50@50 &10%
Wm. Johnson's Gas Pliers 66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting 25%
Stubs' 20%
Swiss Pliers 25%
P. S. & W. Cast Steel ..... 50@50&5%
P. S. & W. Tinners' Cutting Nippers ..... add 6% dis. 10%

Plumbs and Levels—

Cook's ..... 40&10&10%
Davis':
Inclinometers 20%
Iron Levels .... 35&10%
Disston's 50%
Wm. Johnson's 75%
Plumb Bobs 40%
Pocket Levels ..... 70&10&10@75&10%
Stanley's ..... 75&10&10%
Stanley's Duplex ..... 25&10%
Wood's Extension Sight 33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods 25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz 10%
R. I. Tool Co., Leg Irons, $25.00 ₩ doz 10%
Tower & Lyon's 25%

Polish, Metal—

Prestoline Liquid, New List 40%
Prestoline Paste ..... 33⅓@40%

Polish, Stove—

Dixon's Plumbago ..... ₩ lb 8c
Joseph Dixon's ..... ₩ gro $5.75, 10%
Gem ..... ₩ gro $4.50, 10%
Lustro ..... ₩ gro $4.75
Rising Sun ..... ₩ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ₩ doz. $ .75; ₩ gr. $6.50 } 10@
1½ qt. ₩ doz. $ .85; ₩ gr. $8.00 } 15%
2 qt., ₩ doz. $1.15; ₩ gr. $12 00 }
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4 00 ..... 33⅓%

Post Hole Diggers—

Ryan's ..... ₩ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears 33⅓%
Disston's Combined Pruning Hook and Saw ... ₩ doz $18.00, 25@25&10%
Disston's Pruning Hook ..... ₩ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel .... ₩ doz $3.50, 30%
Henry's Pruning Shears ₩ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools. 40%
P. S. & W. Co.'s Shears 60%
Pruning Shears, Henry's Pat. ₩ doz ..... $2.50@2.75
Waters Tree Pruners ..... 75&10%
Wheeler, M. & C. Co.'s Combination ..... ₩ doz $12.00, 25&10%

Pulleys

Awning ..... 60@60&10%
Axle ..... 60&10@60&10 [illegible]0%
Brass Screw ..... 66⅔%@ 0%
Ceiling ..... 50@[illegible]0 & 10%
Clothes Line, Japanned.. 60@60&10%
Common Sense 60%
Dumb Waiter ..... 60@60&10%
Empire Sash Pulley 60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50 ..... 50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70 ..... 50%.
Hot House ..... 50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00 ..... 40%
Side. Anti-Friction 50%
Shade Rack 45%
Upright ..... 50&10@50&10&10%

Pumps—

Cistern, Best grades.. 65&10@70&10%
Pitcher Spout, Best grades 75&10@8.%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump $18.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump $15.00
No. 5, Fig 307, 3 in. Deep Well Pump $15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump $17.00
No. 14. Fig. 521, 3 in. Deep or Shallow Well Pump $15.00
No. 32, Fig. 523, 3 in Deep Well Pump $17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump $14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump $17.00
No. 70. Fig. 333, 3½ in Deep Well Pump $15.00
No. 72, Fig. 333, 3 in. Deep Well Pump $15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump $16.00
No. 102, Fig. 448, 3 in. Lift Pump $10.00
No 103, Fig. 448, 3½ in. Lift Pump $12.00
No. 128, Fig. 510, 3 in. Lift Pump $7.00
No. 131, Fig. 510, 3½ in. Lift Pump $8.50
No. 225, Fig. 389, Windmill Pump $12.50
No. 230, Fig. 402, Windmill Pump $13.50
No. 235, Fig. 403, Windmill Pump $14.50
No. 240, Fig. 406, Regulator Pump $30.00
No. 280 Fig. 484, Imperial Cyclone Pump $18.00
No. 265, Fig. 572, Cyclone Tank Force Pump $17.00
No. 267, Fig. 483, Geyser Tank Force Pump $17.00
No. 268, Fig. 513, Low Down Tank Force Pump $16.00
No. 302, Fig. 477, Spray Pump complete $11.50
No. 320. Fig. 492, Bucket Spray Pump $5.50
No. 331, Fig. 547, Knapsack Spray Pump $10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving 40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive, ... 50@5%
Check 55%
Spring ..... 50&5%
Springfield Socket 65%
Morrill's Universal 35%
Niagara Hollow 45%
Niagara Solid 55%
Rand's Centering Marking Tool.. 25%
Rice's Hand 15%
Saddlers' or Drive, good ₩ doz.. 60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat. 15
Tinners' solid, P. S. & W. Co. ₩ doz $1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

Barn Door, Light, In. ½ ⅝ ¾
Per 100 feet $1.40 1.65 1.80
Barn Door, "None Better" No. 1, ₩ foot 2¾c
Barn Door, "None Better" No. 2, ₩ foot 3½c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet.. $1.60 2.00 2.50
Carrier Steel Rail, ₩ foot 4½c
Cronk's:
Competition ..... ₩ foot, 2¼c
Common ..... ₩ foot, 2¼c
Double Braced ..... ₩ foot, 2¾c
Lanes' O. N. T. ..... ₩ foot, $2.40
Stowell's Wrought Steel 35%
Sliding Door, Bronsed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted... ₩ ft 2c
Sliding Door, Wr't Brass, 1½ in. ₩ lb, 35c ..... 30&10@40&5%
Terry's Steel Rail, ₩ foot 3¼c
Victor Track Rail, 7c ₩ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods. 75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme ..... net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.60
Boss, Garden, 18 teeth, net ₩ doz. $2.75
Canton Lawn Rake... ₩ doz $3.50
Crown Lawn, No. 1.... ₩ doz. $3.50
Hustler, No. 0. ..... ₩ doz. $3.80
Lawn Rake ..... ₩ doz. $4.75
Malleable ..... 70&10@75%
Oneida Lawn ..... doz. $6.00
Peerless Socket and Shank.. 75&15
Prize Bow-Brace ..... 75&15%
Queen City 33⅓%

Razors—

Electric ..... List net
J. R. Torrey Razor Co. 30%
Westenholm and Butcher, $10.00 to £ 10%

Registers—

Stowell's:
Japanned ..... 80&10%
Nickel-plated ..... 75&10%

HOT AIR—

Ferrosteel Japanned ..... 80&10%
Ferrosteel, Nickelplated ..... 75&5.0%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

American Screw Co.:
Bay State Rivets ....75&5%
Burrs 75%
Soft Steel 80%
Copper ..... 60&10&5@50&10&5%
Norway, list Feb, 26, '96 ..... 70%

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Rivet Sets—

Regular list .....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&5 ..... 10@70%
Cronk's:
Acme Barn Door. 50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....₩ lb 14½@15c
Medium, ¼ in. and larger.....₩ lb 12 @13c
Common, ¼ in. and larger.....₩ lb 9½@10c
Jute Rope.....₩ lb 5½c
Manila:
7-16 in. and larger..₩ lb 6½@6½c
⅜ in.....₩ lb 6¾@7 c
¼ and 5-16 in.....₩ lb 7½@7½c
Hay Rope, Med.....₩ lb 6½@6¾c
Sisal, ¾ in.....₩ lb 5½c
¼ and 5-16 in.....₩ lb 5¾c
7-16 in. & larger.....₩ lb 4¾c
Med. L'th Y'rn.....₩ lb 4½c
Hay Rope.....₩ lb 4½c

Rules—

Athol, Steel..... 33⅓%
Boxwood..80&10&10&10@80&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry... ....₩ lb 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz $3.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ lb 2½@2¾c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles. ₩ doz..... $7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4.45
No. E 5, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz $7.70
No E 55 plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz $8.25
No. E 6, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $5.25
No. E 6, nickel-plated, size 4, with "best" handles. ₩ doz $9.60
No. E 6 nickel-plated, size 4, without handles. ₩ doz..... $6 80
No E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz $7.75
No E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 6, plain polished, size 4, with "best" handles..... $8.80
No. E 65, plain polished, size 4, without handles..... $ 80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz..... $3.00
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $22.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol. .....₩ doz $6.00
Sensible, Tailors'.....₩ lb 3@3¼c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth..... 50& 10@60%
Garnet Paper..... 30@ [illegible]
Sand and Emery Paper..50& 10@ 0%

Sash Chain—

Giant 40%
Monarch 50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ lb 16c
Cable Laid Russia....₩ lb 13½c@14c
Common.....₩ lb 8½c@ 9c
Common Russia Sash, ₩ lb 12½c@13c
India Hemp Sash.....₩ lb 9½c@10c
Jute, good quality.....₩ lb 7c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ lb 30c
"Samson" Braided Drab, Cotton.....₩ lb 35c
"Samson" Braided Italian Hemp .....₩ lb 33c
"Samson" Braided Linen, ₩ lb 56c
Silver Lake:
A Quality, Drab..₩ lb 55c. 5@40%
A Quality, White, ₩ lb 50c. 35@45%
B Quality, Drab, ₩ lb 35c. ..... 15@15&7½%
B Quality, White ₩ lb 30c..... 15@15&7½%
White Cotton Braided, ₩ lb 21c@23c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush 70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety .....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Hammond's Window Springs, A .....50&10%
Hammond's Window Springs, B. 50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading .....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular .....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip..... 25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon 30%
Grimm's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....20%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz.. $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $10.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $23.00; No. 5, $31.00.....40&20%
Richardson's 25%
Seymour Smith & Son, Hammer. ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. ₩17.00@ $18.00
Tea, No. 161.....₩ doz. $5 75@$6.00
Union Platform Plain...$2.00@$2.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '92. 50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....₩ doz., $2.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension .....50&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&35%
Fancy Pine.....15%
Painted.....50&5%
Stained.....50&10%
Standard Oil..... .....35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....27½%
Champion.....40&10%
Disston's.....5 @5&10
Pat. Excelsior.....5 &5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard .....60&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
1.5 A.....70&10%
135½ Extra.....70%
148 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40 ..... 50@50&10%
Screw-Driver Bits....₩ doz., 50@75c
Screw-Driver Bits, Parr's₩ gro.$6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 86.....70&10%
Tower & Lyon:
Champion 33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....90%
Brass, Round Head.....85%
Bronze, Flat Head.....87½%
Bronze, Round Head.....85%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Drive Screws.....90%
Iron, Bright Flat Head 90%
Iron, Br't R'd & Oval Head.....85%
Iron, Forged Flat Head. 90%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head....60%
Phosphor Bronze, Round Head..55
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

Brass, Flat Head.....45%
Brass, Round Head.....40%
Iron, Flat Head.....40%
Iron, Round Head.....40%

BENCH, HAND, ETC.—

Bench, Iron, ₩ doz., 1 in., $2.75; 1⅛, $3.00; 1¼, $3.50
Bench, Wood, Beech, ₩ doz $2.00@$2.50
Chair.....60&10%
Coach.....82½%
Hand Rail Am. Screw Co.....82½%
Hand Rail, H. & B. Mfg. Co.....80%
Hand Rail, Sargent's. ....70@70&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's.....75%
Jack Screws, Stearns'.....40&10%
Lag Blunt Point, list Jan. 1, 1890. 75&2@80&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....20%
Lester, complete, $10.00..... 1 &10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass .....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise..... .....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, ₩ Set.....$1.25
Surrey, No. 9, ₩ Set..... $2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....40&5%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs.₩ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears..... 3 &10@40%
Pruning. See Pr'ning H'k's & Shears.
Seymour's List, Dec., 1891. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1892.50&10@50&5
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1896. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 15, 1895 .....60&5%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@$3.40
Perkins Improved Snow.....₩ lb 4c

MULE—

Add 50c ₩ keg to above prices.

OX, WROUGHT—

Ton lots.....₩ lb 9c
1000 lb lots.....₩ lb 9½c
500 lb lots.....₩ lb 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel 10%
Carter's Cast Steel..... 5%
Sanderson's Cast Steel..... 5%
Stone's Cast Steel..... 6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, ₩ gross, $10@11.50

Skate Sharpeners—

Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro $2 .0 @12 .0
Kraut Cutters.....50@50&10%
Woodrough & McParlin.....45%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....65%
Cockeyes.....70&10%
Covert Mfg. Co.....45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
} 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 5& 10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓%
Wood.....₩ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Cen. Stamp. Co's list. 75&10@30%
B. B. Noyes Meat Forks..50&10@50%
Buffalo S. S. & Co.....33⅓&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&6%
28% Rogers' Nickel Silver....60&6%
Rogers' Silver Metal.....50&10&6%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels. 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&1 &10%
Steel and Iron.. }

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₩ lb.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....25%
Reece's New Screw Plates....25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
America , Tinned...90&2.@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10 &5%
Basket Tacks.....75&10%
Basket Nails.....8%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....8%
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80 &5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2 00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks.₩ gr $4.00
Dble. Point.90&10 &10&10&10&10%
Hammer Carpet Tacks..₩ gr. $4 50
Miniature Keg Tacks..66⅔&33⅓& 10&10& 2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " " ...1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....30@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@6 %
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1 55
2	$9.00	$1 55
3	$8.25	$1.35
4	$7.75	$1 30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33⅓%
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓%
Prentiss'.....20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 473, ₩ doz.....$1.65
D. H. Fork, Steel Regular, each .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P Plain Pulley, Fig. 485, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 485, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .55
Floor Pulley, Wood Sheave, Fig. 486, ₩ doz.....$3.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in , ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz.....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch ₩ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1 50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent.....7.@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3 3 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....80&10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole..... 15%
Rat.....40@40 &10%
Household.....₩ gr $10.00
Hotchkiss:
Metallic Mouse,.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross. $12.50
Mouse, Bonanza.....₩ doz 90c@$1.00
Mouse, Catch-'em-alive ₩ doz $2.50,15%
Mouse, Delusion..... 40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire.₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz notes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $13 50; No. 2 ₩ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00

FLY-

Balloon, ₩ doz $1 25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓%
Disston's:
Brick.....30%
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@2 &10%
"Rose" Brick Plastering and Moulders.....30 @30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action .....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....50%
Stephens'.....20@30%
Trenton.....40&50@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3, $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Whips—

American Whip Co. quotations: Toy Whips, all kinds ₩ gross. $2.50@$12.00
American Whip Co.: List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7¾ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft. $10.50; 6½ ft., $12.00; 7 ft., $13.50 7¾ ft., $15.00; 8 ft., 16.50.
Americus, 9s Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11 00; 6 ft., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $15.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 108, 6 ft.....$5.0
Hand-Made Stocked Java, No. 108.....5½ ft , $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $1.00
Team Whips....₩ doz $3.0 @$7 50
True Grip, Raw Hide Center, 4½ ft. $6.00; 5 ft., $6.0; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.00; 7 ft., $9.00.

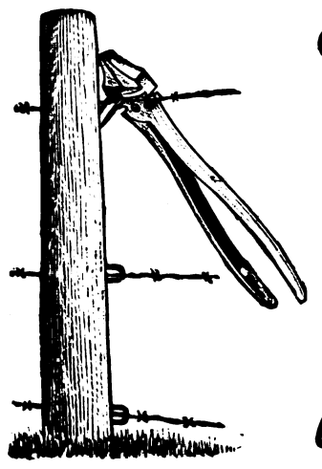
Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....35&10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 85&10@85&10 & 10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@7 &10&5%
Galv., Nos. 0 to 18, 75&10@75& 10& 5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to 25 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4¾c
Wire Clothes Lines, see Lines.

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CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

BETTER THAN NEW.

Having Been Tried and NOT Found Wanting.

GENERATORS

ARMATURES, DYNAMOS, MOTORS, COMMUTATORS, TRANSFORMERS

REPAIRED.

Write us for Estimates on your work. | We Pay the Freight One Way.

The W. H. Elliott Electric Co., General Electrical Repairers. Fourteen Years' Practical Experience.

14, 16 and 18 Middle Street, Cleveland, Ohio, U. S. A.

HORSESHOE MAGNET HAMMER.

—WARRANTED—



Fitted with long handles. A specialty for bill posters and traveling advertisers; also useful in other trades.

Superior to any magnetic tool heretofore made.

ARTHUR R. ROBERTSON, Patentee and Sole Manfr.
185 Summer Street, Boston, Mass.

GREAT VALUE AS AN ADVERTISING MEDIUM.

Buck Bros, Milbury, Mass. [Tools]: We appreciate the great value of HARDWARE as an advertising medium.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.10@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....20&2½&2% cash
Iron.....20&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....35%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1 50

Wrenches—

Acme:
Bright.....60@60&10%
Heavy.....50%
Nickel.....50&10@80%
Agricultural.....80@80&10%
Aiken's Pocket (Bright)..$2 00@3.20
Alligator.....60@6 &10%
Always Ready.....33⅓&5&40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Lag Screw.....35%
Ratchet.....33⅓%
Socket Bridge.....20%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....35%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894,
Lowell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....7c
Linseed, City, Boiled, in barrels ₩ gallon.....39c
Out of Town on Spot..₩ gal.....37c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 33@40c
Western, Prime.....37@38c
Extra, No. 1.....3 @3 c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$28.00
Barytes, American, No. 1. ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....5c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 8@8½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@—c
In machine bbls.....35@—c

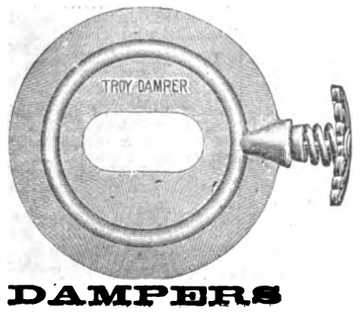
Dry Colors—

Blue, Chinese.....₩ lb 37 @40
Blue, Prussian.....₩ lb 30 @35
Blue, Ultramarine..₩ lb 8 @25
Sienna Ital'an, burnt & powd red ₩ lb 3½@5 c
Sienna, Italian, raw & powdered...₩ lb 3 @4½c
Umber, Turkey, burnt.....₩ lb 2½@3½c
Umber, Turkey, raw.....₩ lb 2½@3 c
Green, Chrome, Common.....₩ lb 5 @12 c
Green, Paris, in bulk.₩ lb 11½@12½c
Indian Red, American.....₩ lb 2 @3 c
Indian Red, English.....₩ lb 4½@8

Colors in Oil—

Black Coach Japan ₩ lb..18½@20
Black Coach Japan, in Oil.....₩ lb 12 @13 c
Black Drop.....₩ lb 7 @10 c
Black Lampblack...₩ lb 20 @23 c
Black Lampblack, common.....₩ lb 7@15 c
Blue, Chinese.....₩ lb 35 @40 c
Blue, Prussian.....₩ lb 20 @40 c
Blue, Ultramarine..₩ lb 12 @18 c
Brown, Sienna, burt ₩ lb 8 @12 c
Brown, Sienna, raw.₩ lb 8 @12 c
Umber, burnt.....₩ lb 7 @10 c
Umber raw.....₩ lb 7 @10 c
Brown, Vandyke....₩ lb 7 @12 c

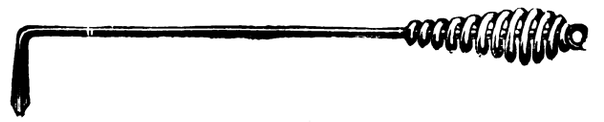
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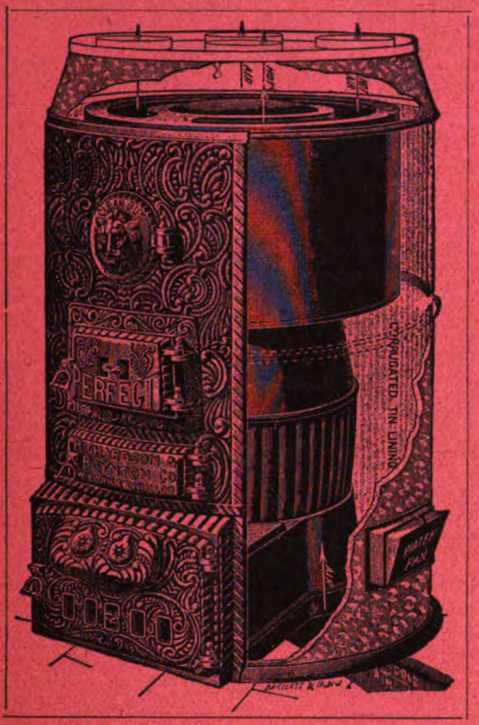
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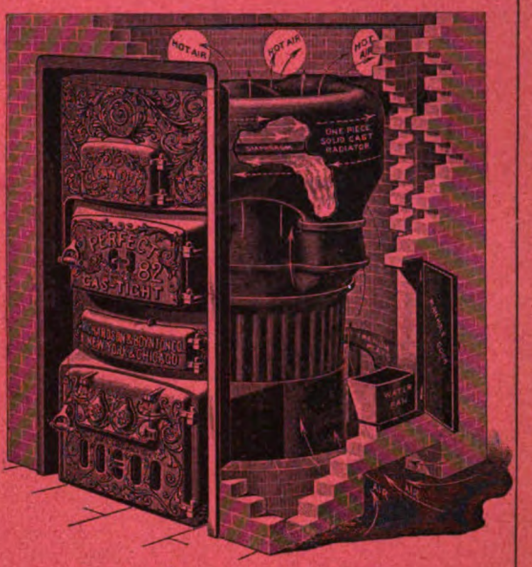
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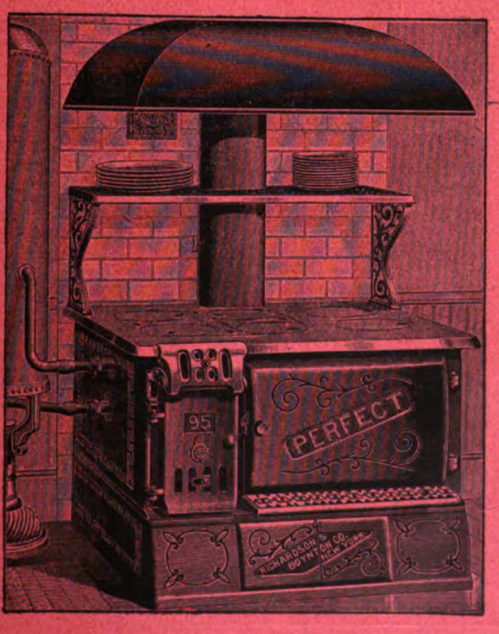
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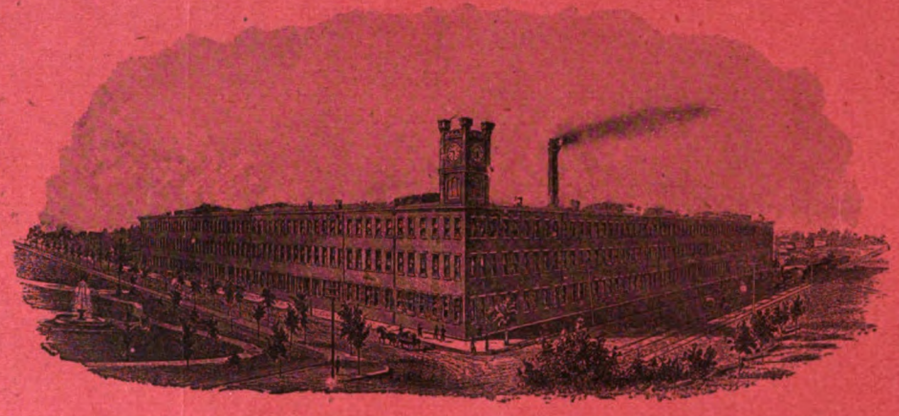
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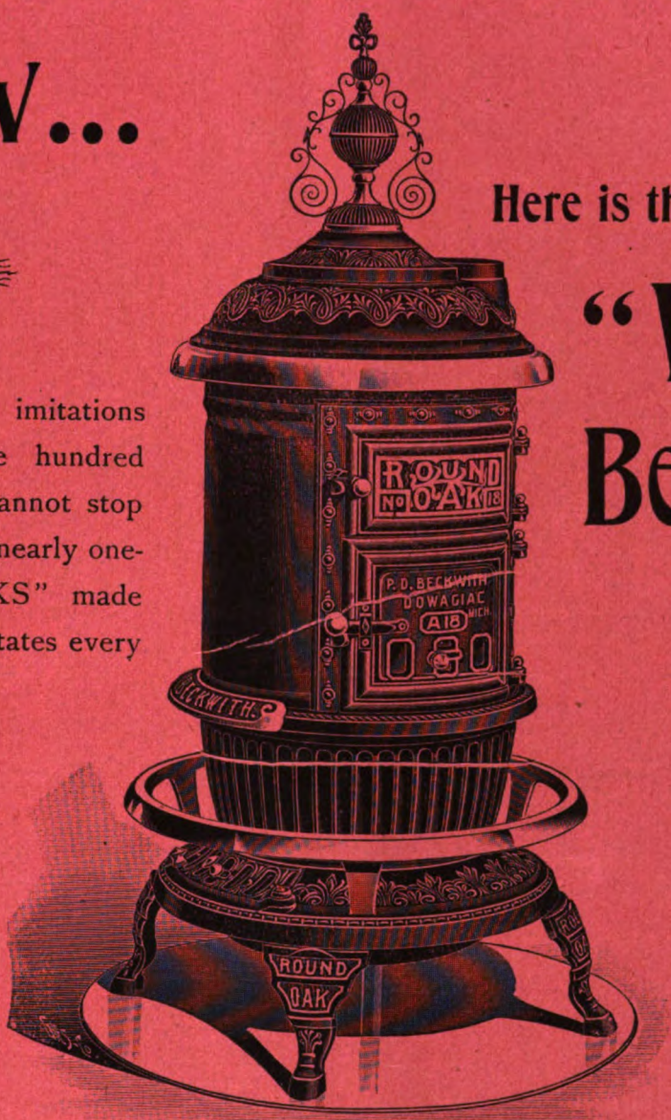
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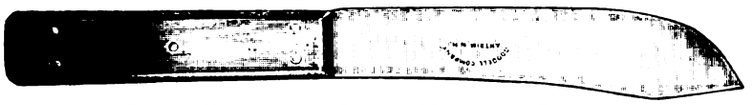
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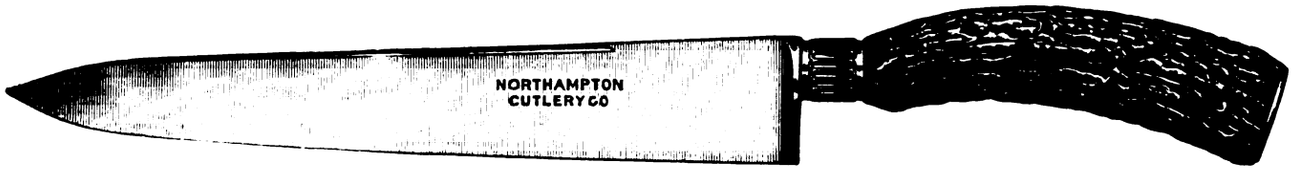
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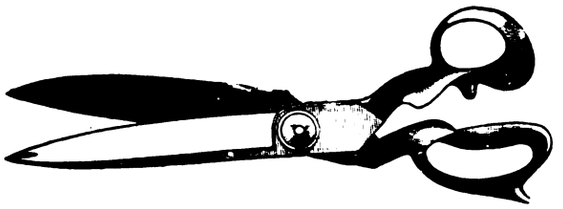
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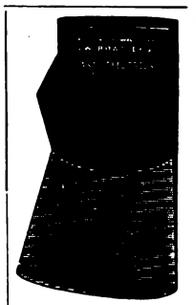
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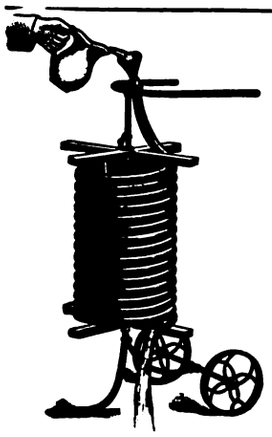
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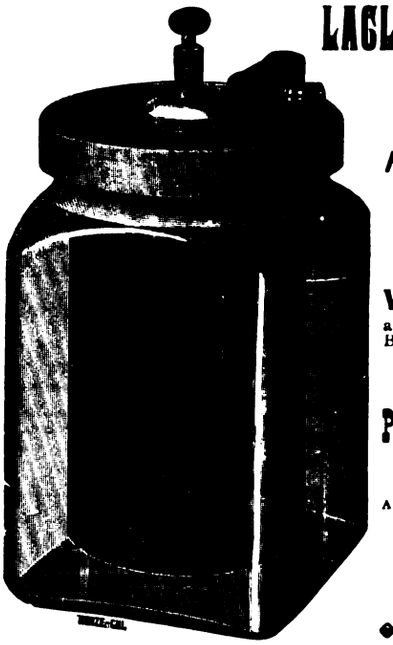


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Eyelets.
Waterbury Brass Co., New York.

Faucets.
Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Fibre Ware.
Standard Fiber-Ware Co., Mankato, Minn.

Files.
Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.

Filteration Quartz.
New England Filteration Co., Boston.

Filters.
J. H. Seed, New York.

Fire Escapes.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Fishing Tackle.
Enterprise Mfg. Co., Akron, Ohio.

Flat Ware.
See Plated Ware.

Flower Pot Stands.
E. T. Barnum, Detroit, Mich.

Fluting Machines.
North Bros. Mfg. Co., Philadelphia.

Fodder Cutters.
Silver Mfg. Co., Salem, O.

Foundry Riddles.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.
Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.
Stewart Iron Works, Cin'nati, O.

Fruit Pickers.
Edward Darby & Sons, Philadelphia.

Fruit Presses.
Enterprise Mfg. Co., Philadelphia.
Logan & Stroudsbridge Iron Co., New Brighton, Pa.

Furnaces.
Hess, Snyder & Co., Massillon, O.
Richardson & Boynton Co., New York, Chicago Boston
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Garden Tools.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.
H. O. Canfield, Bridgeport, Conn.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.
Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.
Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.
Stanley Rule & Level Co., New Britain, Conn.

Gears.
T. F. Welch & Co., Boston.

Generators.
W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.
H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.
Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.
Jos. Dixon Crucible Co., Jersey City, N. J.

Grating, Iron.
Stewart Iron Works, Cin'nati, O.

Grinding Mills.
A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.
Cleveland Stone Co., Cleveland,

Gummers.
E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.
E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.

Gun Implements.
Bridgeport Gun Implement Co., New York.
Hartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Hammers.
Knapp & Pratt Mfg. Co., Geneva, O.
Miner & Peck Mfg. Co., New Haven, Conn
Arthur R. Robertson, Boston.
The Scranton & Co., New Haven, Conn.
Troy Nickel Works, Albany, N.Y.

Handles
Berger Bros., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio
Geo. S. Parkes & Co., Nashville, Tenn.
Russell & Erwin Mfg. Co., New York.

Hangers.
Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.
Cronk Hanger Co., Elmira, N Y

Hangers, Door.
Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N.Y.
Mc Cabe Mfg Co., New York.
McKinney Mfg. Co., Allegheny, Pa.
Stowell Mfg & Fdry. Co. South Milwaukee, Wis
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.
Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.
Arcade Mfg. Co., Freeport, Ill.
Berger Bros., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Bowles, Plainville, Conn.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co. New York.
"Foreign," New York.
Griswold Mfg Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E Kohler & Co., Canton, Ohio.
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
North Bros. Mfg. Co., Philadelphia.
Charles Morrill, New York.
Patterson, Darral & Grey, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Charles Weiland, New York.
T. F. Welch & Co., Boston.

Harness Snaps.
Covert Mfg. Co., West Troy, N. Y.
Ira F. White & Son, New York.

Hasps.
McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.
F. E. Myers & Bro., Ashland, O.

Hay Forks.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.
E. T. Barnum, Detroit, Mich.

Heaters.
Bradley & Hubbard Mfg. Co., Meriden, Conn.
C. R. Morse Heater Mfg. Co. Norwalk O.
Edward Miller & Co., Meriden, Conn.

Hinges.
Bommer Bros., New York.
R. Christensen, New York.
Thomas Hinge, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hitching Posts.
Ohio Metal Co., Norwalk, Ohio.

Hones, Razor.
Alfred Field & Co., New York.
Pike Mfg. Co., Pike Station, N. H.

Hoisting Machinery.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.

Horse Nails.
Ausable Horse Nail Co., New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.
F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.
Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus.
Bramhall-Deane Co., New York.

Ice Tools.
John Chatillon & Sons, New York
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Stroudsbridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.

Ice Cream Freezers.
John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.
Mutual Life Insurance Co. New York.

Iron.
Bruce & Cook, New York.

Iron Castings.
C. H. Angus, Albany, N. Y.

Iron, Perforated.
Harrington & King Perforating Co., Chicago.

Jail Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.
C. H. Angus, Albany, N. Y.

Kitchen Sinks.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.
National Saw Co., Newark, N. J.

Ladders.
Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.
Plume & Atwood Mfg. Co., New York.

Lanterns.
Buhl Stamping Co., Detroit, Mich.

Lathes.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.
George Hayes, New York.

Lawn Fountains.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.
Enterprise Mfg. Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lead.
Bruce & Cook, New York.
Colwell Lead Co. New York.

Lead Pencils.
Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.
Berger Bro., Philadelphia.
John H. Graham & Co., New York.
Logan & Stroudsbridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.
Tower & Lyon, New York.

Locks and Knobs.
Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.
A. Adamson, Akron, Ohio.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.

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Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Vieillard & Osswald, Brooklyn, N. Y
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.
C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston

Mail Boxes.
W. C. Heller & Co., Montclair, N. J.

Mallets.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.
Fulton Stamp Works, New York.

Masons' Lines.
Samson Cordage Works, Boston.

Meat Choppers.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.
New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.
Canton Steel Roofing Co., Canton, Ohio.
S. Keighley & Co., Pittsburg, Pa.

Metal Patterns, Work, etc.
C. H. Angus, Albany, N. Y.

Metals, Perforated.
Harrington & King Perforating Co., Chicago.

Metallic Paint.
Bruce & Cook, New York.

Metal Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.
Meyers' Putz Pomade Co., Boston.

Milk Cans.
Buhl Stamping Co., Detroit, Mich.

Mincing Knives.
Enterprise Mfg. Co., Philadelphia.

Mining Screens.
Harrington & King Perforating Co., Chicago.

Mirrors, Window.
Bayer & Co., Philadelphia.

Model Making.
Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mops.
Matchless Mop Wringer Co., Canton, Ohio.

Mop Wringers.
Matchless Mop Wringer Co., Canton, Ohio.

Motors.
W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.
A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York,
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Chapman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.
Brailey & Hubbard Mfg Co., Meriden, Conn
Edward Miller & Co., Meriden, Conn.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
William Connors, Troy, N. Y.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Photo-Engraving.
Otto Neuburg, New York.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Poles.
Geo. S. Parkes & Co., Nashville, Tenn.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
Meyers' Putz Pomade Co., Boston.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Miner & Peck Mfg. Co., New Haven, Ct.
Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus Ohio.
John H. Graham & Co., New York.
Hess Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
F. J. Mattison, New York.
Charles Morrill, New York
Smith & Egge Mfg. Co., Bridgeport, Conn.

Radiator Deflectors.
J. Rutherford & Son, Akron, Ohio.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges
Bramhall-Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Rat and Mouse Traps.
See Traps.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia

Reels.
Hartzell Novelty Works, Alliance, Ohio.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
Union Nut & Bolt Co., New York.

Rollers.
Fulton Machine Co., Canal Fulton, O.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Server, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
Underhill, Clinch & Co., New York.

Scrapers, Wheel.
Sidney Steel Scraper Co., Sidney, O.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia
A. J. Phillips Co., Fenton, Mich.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York,
Tuca Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess Snyder & Co., Massillon, O.
Geo. S. Parkes & Co., Nashville, Tenn.

Shears and Scissors.
Alfred Field & Co., New York.
H. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

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Sheet Brass.
Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York

Spark Guards.
Edward Darby & Sons, Philadelphia.
Dow Wire Works, Louisville, Ky.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spokes.
Geo. S. Parkes & Co., Nashville, Tenn.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Stencils.
Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
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Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Richardson & Boynt n Co., New York, Chicago, Bo.ton.

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Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

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Logan & Stourbridge Iron Co., New Brighton, Pa.

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Pike Mfg. Co., Pike Station, N. H.

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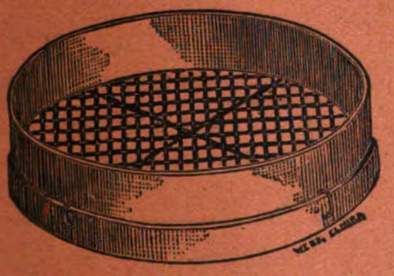
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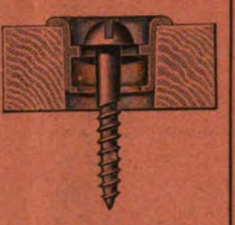


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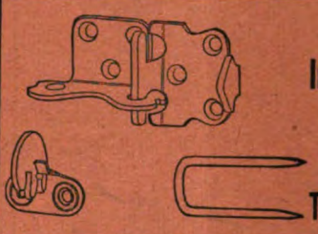
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OUR NAME AND BRAND A GUARANTEE OF QUALITY.

BELTING, PACKING, TUBING, SPRINGS, VALVES, GASKETS, MATS, MATTING, HOSE.

Send for Catalogue, Samples and Prices.

N. J. CAR SPRING & RUBBER CO.,

MAIN OFFICE, Jersey City, N. J.

IF YOU USE

Power Hammers

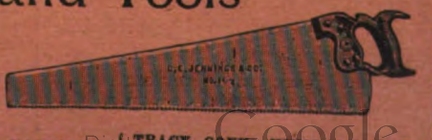
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THE SCRANTON & CO.,

NEW HAVEN CONN.

Jennings' Saws and Tools

Cost a trifle more than other brands, but are cheaper in the end on account of their superior quality and workmanship. . . . . .



C. E. JENNINGS & CO.,

SOLE MANUFACTURERS,

79 Reade Street, NEW YORK.

FACTORIES: TRACY, CONN.; HINSDALE, N. H., and PORT JERVIS, N. Y.

Fuller Brothers & Co.,

139 GREENWICH STREET,
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STEEL WIRE NAILS.

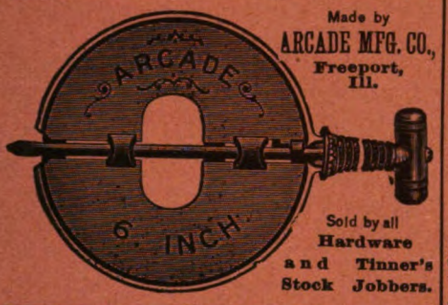
Iron and Steel

CUT NAILS.

Plain and Galvanized Wire.

BARB WIRE.

Wire Straightened and Cut to length.



Made by
ARCADE MFG. CO.,
Freeport,
Ill.

Sold by all
Hardware
and Tinner's
Stock Jobbers.



Ask your jobber for it.

IT DRAWS THE CORK

—twists it out with ease. Saves all the customary pulling and bothering.

WALKER'S SELF-PULLING

CORK SCREW No. 5

with wire cutter.

Is best of all. . . . .
Invaluable to everyone.

Erie Specialty Co.,
Erie, , U.S.A.

ESTABLISHED 1857.

WALLACE BARNES,

Manufacturer of Flat, Coiled and Wire

Steel Springs of Every Description.

SEND SAMPLE FOR PRICES.

BRISTOL, - - CONN.



We also manufacture the BURTON'S No. 1, 2 and 3 Gem Wire and Wire Drive Anti-Rattlers, Dandy Clothes Rack, and BECKER'S Game Traps.

FERNALD
WIRE ANTI-RATTLER
PATENT APPLIED FOR

Fernald Mfg. Co.,
NORTH EAST PA.

UNION NUT & BOLT CO.,

107 Chambers and 91 Reade Sts., NEW YORK.

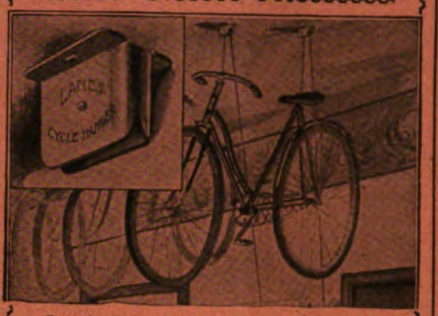
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NUTS, BOLTS, WASHERS, RIVETS, RULES, &C.

In great variety and of best quality.

Send for Catalogue.

LANE CYCLE HANGER.



Lane's Pat. Cycle Hanger is packed in pairs complete with screws and rope adapted for attaching to any bicycle; length sufficient for 12-foot ceiling. For sale by Bicycle and Hardware dealers, or sent by mail, post paid, on receipt of price, $1.00.

LANE BROTHERS,
Poughkeepsie, N. Y.

ESTEY WIRE WORKS CO.,

NO. 65 FULTON ST., N. Y.

MANUFACTURERS OF

WIRE CLOTH and WIRE WORK

Of Brass, Copper, Iron, Galvanized and Steel Wire of all meshes and grades. For Mining, Milling, and all other purposes. **Locomotive Spark Wire Cloth, &c.**

For Bank, Office and Counter Railings: Wickets, Grills, etc., in Brass Bronze, Oxidized and other effects Elevator Enclosures, &c.

Coal and Sand Screens, Riddles for Export and Foundry Use. Galvanized Twist Netting, Wire Window Screens, &c.

High Grade

Buffing Wheels,

Large variety, adapted to every class of work.

Patent Sewed Buffs.

The finest in the world.

We are the largest manufacturers of Buffs in the United States. . .

Write for Catalogue and prices.

DIVINE BROTHERS,

UTICA, N. Y.

McCABE
PATENT
BALL BEARING
DOOR HANGERS



Simplest, Cheapest, Best.

Adjustments above and below the track without removing the door.

Once used will use no other.

Send for catalogue or order a set at once and see why it is without an equal.

McCabe Manufacturing Co.,

555 West 22d St., NEW YORK.

STAND'D HEAD 8



Ausable Horse Nail Co.,

10 MURRAY STREET, NEW YORK.

THE ORIGINATORS OF

Hot Forged AND Hammer Pointed Nails

IMITATING THE

Old Fashioned Hand Process.

FAC-SIMILE OF AUSABLE BOX AND BRAND.



Genuine Ausable Nails are packed in boxes bearing their FULL NAME and Trade Mark.

LIGHT HEAD 8





WITH THIS SCREW LADIES CAN DRAW TIGHT CORKS EASILY.

WILLIAMSON'S

HAND POWER CORK SCREW,

Pulls the Cork out of the Bottle.

DIRECTIONS FOR USE:

KEEP ON TURNING, DO NOT PULL.

No. 7042, Bronze Cup, Maple Handle $3.00 per doz.
No. 8042, Nickel Cup, Maple Handle $3.50 per doz.

For Discounts and other Styles send for Catalogue.

C. T. WILLIAMSON WIRE NOVELTY CO.,

NEWARK, N. J.

Manufacturers of Wire Specialties for the Trade.

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Best Crucible File Steel; Hard, Thorough Temper;
Sharp, Strong Teeth; Durable & Uniform.

NICHOLSON



FILES

NICHOLSON FILE CO.,
PROVIDENCE, R. I., U. S. A.
LARGEST PRODUCERS IN THE WORLD.

Standard of America



MAIN OFFICE AND ADDRESS
CABLE ADDRESS NICHOLSON, PROVIDENCE, U.S.A.
NICHOLSON FILE CO. PROVIDENCE R.I. U.S.A.
A.B.C. CODE 4TH EDITION
For 30 Years.

CHAS. J. STEBBINS.

NAILS

103 Reade Street.
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Iron & Steel Cut Nails

STEEL WIRE NAILS.

A Large Stock Constantly on Hand for Immediate Shipment.

E. I. DU PONT, DE NEMOURS & CO.,
WILMINGTON, DELAWARE.

GUNPOWDER.

Du Pont's Crystal Grain.
Unequaled in strength and cleanliness.

Du Pont's Eagle Ducking.
Unsurpassed for penetration and pattern, burning slowly, strong and very clean.

Du Pont's Choke Bore.
Specially adapted for Prairie and Upland Shooting; burns slowly, strong and moist; gives good penetration with a close pattern.

Du Pont's Rifle.
For general shooting, either in muzzle or breech loaders.

"V. G. P." NEW TRAP POWDER. "V. G. P."
A new powder for Trap Shooters and others. Very regular in grain. Moist, quick, clean and strong.

Du Pont's Smokeless Powder.
Regular pattern and high velocity, with low pressure. Try it. Load same as Black Powder. Directions on every wrapper.

MILITARY POWDER and GUN COTTON
Of a quality to meet requirements of U. S. Army and Navy.

MINING AND BLASTING POWDER.

Send Postal for Illustrated Catalogue.

Meyers' Putz Cream Liquid Metal Polish



Unsurpassed for imparting a brilliant polish to

Brass Signs, Railings, Show Cases, Nickel Plate, Bicycles, Tin, Copper Ware, and Household Articles.

TRY IT

It is particularly valuable for

Harness and Door Trimmings

As it leaves no stains or discolorations. Samples, advertising matter and electrotypes gratis.

Prices and Sizes:

¼ pint cans	(2 doz. in case)	$1.80	per doz.		
½ "	3 "	"	3.00	"	
1 "	2 "	"	6.00	"	
1 quart can	2 "	"	10 80	"	
½ gal.	"	.....	18.00	"	
1 "	"	.....	36.00	"	

Order as originally packed and get best discounts.

MEYERS' PUTZ POMADE CO., 285 Devonshire St., BOSTON, MASS.

"OLD JOB JOHNSON'S."



The Best Gate,
Latch and Hinge
EVER MADE.

The Years Have Proved Their Value

Their One Fault :~~
They Won't Wear Out!

Simple, Durable and Cheap. Arranged to work without any spring, on its own Automatic principles. Send for descriptive circular and prices.

Manufactured by The Burr & Houston Co.,
33 to 39 Franklin Street, - - - BROOKLYN, N. Y.

NOW

is the time to ride a Columbia bicycle — between the hot and cold seasons—the fall weather is ideal for cycling. The air is good, the roads are good, and a Columbia is the best to ride.

1897 COLUMBIAS, $75 TO ALL ALIKE,

are strong and swift. You need never fear not being able to ride a Columbia the year round.

Hartford Bicycles,
better than any except Columbias, $50, $45, $40.

POPE MFG. CO., Hartford, Conn.
If Columbias are not properly represented in your vicinity, let us know.

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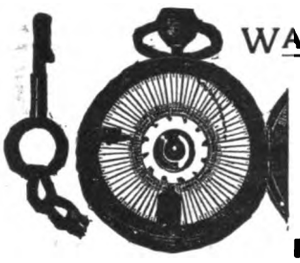
OUR FAMILY CASE OF TOILET PAPER

SHOULD BE IN THE STOCK OF ALL HARDWARE DEALERS

3000 SHEET ROLLS. SATIN FINISH FINEST QUALITY.

RETAILS FOR $1.00 PER CASE.

A.P.W. PAPER CO ALBANY, N.Y.



HAHN'S LATEST IMPROVED

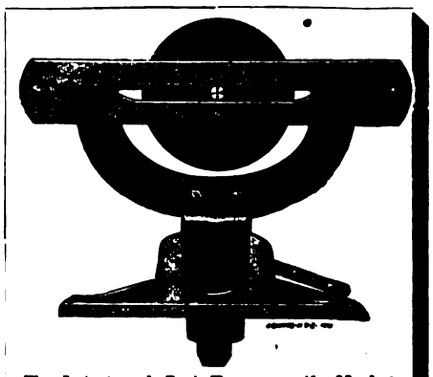
WATCHMANS' TIME DETECTOR,

WITH SAFETY LOCK ATTACHMENT.

Highest Award at Columbian Exposition.

This Clock is neat, thoroughly reliable and very durable. **Cannot be tampered with.** Price moderate. Is adapted for six or twelve stations, having a different key for each. Registering is done by number from 1 to 6 and 1 to 12, each station having its number. No chance for a fraudulent record here. Old style detectors mark by holes or an impression on dial, the same for all stations. Allowance made for old Detectors. Send for circulars, prices and further particulars.

NANZ & CO., 116 CHAMBERS STREET, NEW YORK.



The Latest and Best Hanger on the Market.

Write for Prices.

STOWELL MFG. & FDRY. CO.,

SUCCESSORS TO

Moore Mfg. & Fdry. Co.,

South Milwaukee, Wis.

THEO. M. HASS,

MANUFACTURER OF

Fancy Brass Goods, Plain and Embossed Borders, Locks, Hinges, Catches, Clasps and Trimmings, for Albums, Books and Fancy Boxes.

Goods to Order a Specialty. Dies and Tools.

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"The Safety Weather Strip" FOR USE ON

ALL OUTSIDE DOORS.

THEY PREVENT

Rain, Snow and Wind

FROM BLOWING UNDER THE DOOR.

WE WANT AN AGENT IN EVERY CITY AND COUNTY.

Manufactured by **The Novelty Mfg. Co.,**

Office, 40 E. Fifth Street, Canton, Ohio.

TRUCKS OF ALL KINDS.

A. ADAMSON

MACHINIST.

Corner Exchange and Water Streets, AKRON, OHIO.

General Machine Work, Molds for Bicycle Tires, Air Goods, Druggists' Sundries, Matrices for Hard Rubber Goods, Die Sinking, Hydraulic Presses, Special Machinery, etc. Estimates cheerfully given. Correspondence solicited. Work promptly done.

Rubber Machinery

"Has Our Esteemed Favor."

Edward Darby & Sons, Philadelphia, Pa. [*Wire Goods*]: For the past few years we have been in HARDWARE, and we beg to remind you that it has our esteemed favor, and will recommend the same to anyone desirous of a good, useful, common-sense trade journal such as HARDWARE is.

YES. It must be so

For all the Trade admits that our No.

75

Is the Strongest and Best Constructed

BARROW Ever put on the market. . . .



Bryan Manufacturing Co., Bryan, Ohio, U. S. A.

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Disston's Superior Files.

The Steel used in these Files is manufactured by our own steel works. They are cut by skilled mechanics on our own improved machinery, hardened by a special process which insures an even temper.

Each File is carefully inspected before leaving the factory.

We Guarantee the quality of our Files to be equal to that of our Saws. . . . . .

IF YOU CANNOT BE SUPPLIED WRITE US.

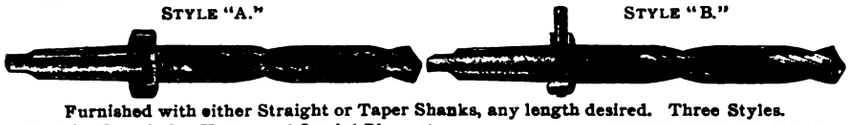
Highest Award given our Files wherever exhibited

Henry Disston & Sons, Incorporated,

Philadelphia, Pa.

THE "DIAMOND" 'W. & B." UNIVERSAL SELF-OILING DRILLS.

STYLE "A." STYLE "B."



Furnished with either Straight or Taper Shanks, any length desired. Three Styles.
Send for Descriptive Matter and Special Discounts. MANUFACTURED ONLY BY

THE WHITMAN & BARNES MANUFACTURING CO.,

NEW YORK, N. Y. CINCINNATI, OHIO. CHICAGO, ILL. KANSAS CITY, MO.

HARDWARE DEALERS

BUY

Lead Pencils, Carpenters' Pencils,
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Graphite Paint, Lubricating Graphite,
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And other graphite products of

JOS. DIXON CRUCIBLE CO.,

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Who are the largest and oldest importers, miners and manufacturers of Graphite, Plumbago and Blacklead in the world.

DETROIT TWIST DRILL CO., Detroit, Mich.

Sole Manufacturers of

Graham Grooved Shank System of Chucks and Drills.

. . . SEND FOR CATALOGUE.



THE FINISHED STEEL CO

YOUNGSTOWN OHIO

MFR'S OF **POLISHED SHAFTING**

HIT THE PIPE



as hard as you like with chisel or mallet and observe that the surface finished with simply one coat of

ELASTIC IRON ENAMEL

is scarcely marred. It also withstands a high degree of heat; in truth it is as nearly indestructible as it is possible to make a varnish. For smoke-stacks, fire-place casings and stove-pipes

ELASTIC IRON ENAMEL has no equal.

The accompanying cut represents a miniature stove-pipe finished with one coat of

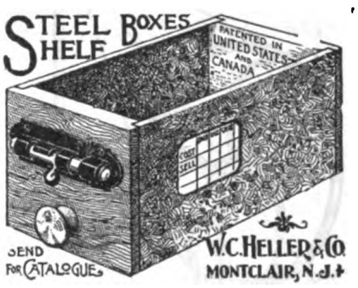
ELASTIC IRON ENAMEL.

We send these display pipes with dealer's orders for this specialty. Pints, half pints and quarts are its most salable packages.

Chas. H. Gillespie & Sons,

VARNISH MAKERS,

125 to 137 Dey St., JERSEY CITY, N. J.



ECONOMIZE.

SHELF BOXES { MADE TO ORDER. ESTIMATES FURNISHED.

HENRY H. SHEIP & CO.,

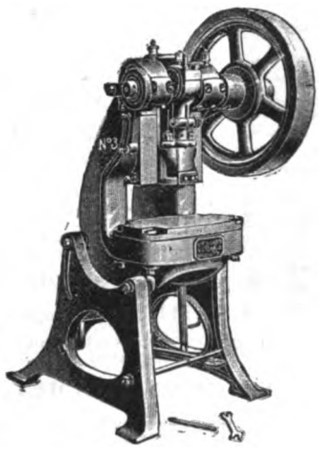
Columbia Ave. and Randolph St.,

PHILADELPHIA.

"A Good Medium for Advertising."

Edw. K. Tryon, Jr., & Co., Philadelphia, Pa. [*Bicycles, Fire Arms, Sporting Goods*]: We consider the Hardware dealers as the legitimate and best class of trade to handle bicycles, and as HARDWARE reaches a great number of them we consider it a good medium for advertising this line. We think that sooner or later the bicycle business will be done almost exclusively through the Hardware trade, and in order to keep our line continually before them we shall continue to advertise in your columns.

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VIEILLARD & OSSWALD,

Manufacturers of

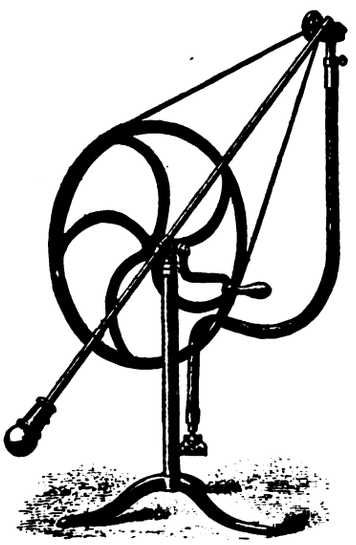
PRESSES AND DIES AND SPECIAL MACHINERY

FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

708-710 Jamaica Avenue, BROOKLYN, N. Y., U. S. A.

WRITE FOR PRICES.



OVER 2000 MACHINES SOLD IN SIX MONTHS.

1000 Machines and 10,000 Cutters in Stock.

Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . . . . .

ADVANCE ORDER FOR

3000 IN EUROPE ALONE.

.. CATALOGUE SENT FREE TO ALL ..

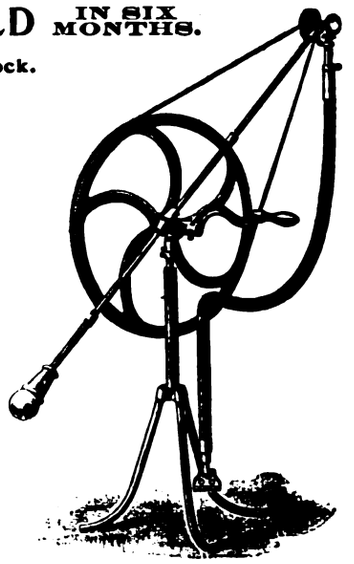
SHOWING OUR DIFFERENT STYLES OF

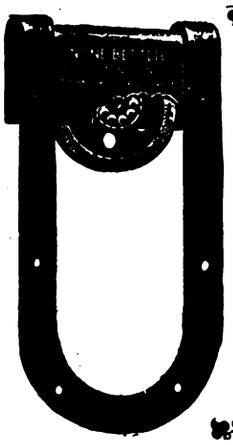
Steam, Electric, Foot & Hand Power

HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,

110, 112 & 114 West 32nd St., New York.





STEEL DOOR HANGERS.

WRITE FOR PRICES ON

No. 1 Special and No. 2 Standard.

THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

McKINNEY MFG. CO., - Allegheny, Pa.

NICKEL PLATING

LACQUERS, CYANIDE POTASH, NICKEL SALTS.

ESTAB. 1820. INCOR. 1891.

THE HANSON & VAN WINKLE CO.

OFFICE NEWARK, N.J., U.S.A.

AND WORKS

NEW YORK. CHICAGO.

TRIPOLI, ROUGE, BUFFS, & C.

OUTFITS

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FOURTH ANNUAL

Sportsmen's Exposition and Bicycle Show,

UNDER THE AUSPICES OF THE National Sportsmen's Association.

Madison Square Garden, New York,

JANUARY 13 to 22, 1898.

Educational Exhibit of Sportsmen's Equipments and Appliances. Bicycles and Bicycle Sundries. Fly Casting, Shooting, Bowling and other Contests. Live Specimens of Wild Game, Birds and Fish.

Apply at once for diagrams, application blanks, and particulars, to

SECRETARY, P. O. Box 2325, N. Y. City, or 377 Broadway.

FRANK W. SANGER, Manager Madison Square Garden Co., New York.

SPECIAL NOTICE.—For $2.00 any gentleman may become a member of the NATIONAL SPORTSMEN'S ASSOCIATION, membership entitling him to free admission to the Sportsmen's Exposition, reduced rates at Association hotels, one year's subscription to the Official Bulletin, and other privileges, which can be learned of by addressing the Sportsmen's Association, P. O. Box 2325, N. Y. City, for application blank and prospectus.

Akron Tubular Steel Wheelbarrows.

RE-INFORCED TRAYS.
SOLID FRAME.
NO HOLES DRILLED INTO IT.
ALL PARTS CLAMPED ON.

Perfect Forward Dump.
Strongest, Easiest Handled.
Lightest and Most Durable.

McNEIL'S PATENT BALANCED AUTOMATIC DUMP CHARGING BARROW.



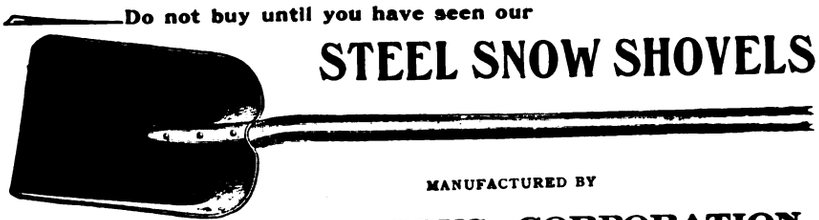
The Akron Cultivator Co.,
MANUFACTURERS, Akron, Ohio.

UNDERHILL, CLINCH & CO.,

94 Chambers Street, New York.

Do not buy until you have seen our

STEEL SNOW SHOVELS



MANUFACTURED BY

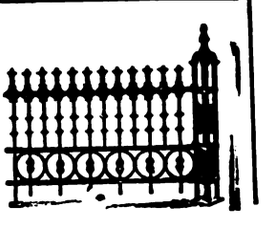
OLIVER AMES & SONS CORPORATION.

Send for our Shovel Catalogue showing goods carried in stock and new prices.

WE WANT AGENTS TO SELL OUR **IRON FENCE**

We furnish first-class work at prices that bring the trade. Write for Catalogues, Prices and Terms

The Stewart Iron Works,
CINCINNATI, O.
Manufrs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





FLOWER-POT STANDS

OF ALL KINDS.
SEND FOR CATALOGUE.

Iron Fencing, Entrance Gates,

FIRE ESCAPES, JAIL CELLS, ROOF CRESTING, BANK and OFFICE RAILINGS, GRILLES,



AND ALL KINDS OF WIRE & IRON WORK.

E. T. BARNUM, DETROIT, MICH.
Agents Wanted Mention this paper.

TO SAVE FREIGHT

WE KEEP IN STOCK

Grindstones,
Mounted Grindstones,
Scythe Stones,
Axe Bits, &c.,

AT OUR BRANCHES

288 Front Street, New York, N. Y.
Chicago, Ill., Office Old Colony Building.
31 & 33 Sleeper St., So. Boston, Mass.

THE CLEVELAND STONE CO.,

Hickox Building. Cleveland, O.

Hardware Dealers Send us your address and we will mail Catalogue and discount sheet of **STOCKS & DIES, TAPS, etc.**



Holroyd & Co.,

Waterford, N. Y.

HAVE BEEN WELL SATISFIED.

Buffalo Cycle Co., Buffalo, N.Y. [*Bicycles*]: We are pleased indeed to add our testimonial to the merits of HARDWARE as an advertising medium. We have been extremely well satisfied with our advertising therein, although of course it is impossible for any manufacturer to trace the ratio of direct results from any one paper. . . . . .

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"EVERYTHING IS COMING UP."

BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

Sheep Skin Mitten.



Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

Diamond Hardware Co.,

624 Atlantic Ave., Boston, Mass.

B Lemon B Squeezers



THESE Squeezers are strong, handy and well shaped for the use intended. . . Made of malleable iron, nicely tinned, in two sizes, 8 and 10 inches. Now is the time to order.

BERGER BROS.,

PHILADELPHIA, PA.

"New Idea" Halter Chains also SNAPS.

☞See that Steel Snap (Rear Bolt.) They are Safe! They are Sellers!

(Sheet Steel) For Harness, Rope or Chain.



. . . SEND FOR PRICES ON . . .

Cow Ties, Picket Chains, Coil Chains, Dog Chains, Etc., Etc.

IRA F. WHITE & SON, 76-78 Park Place, New York.



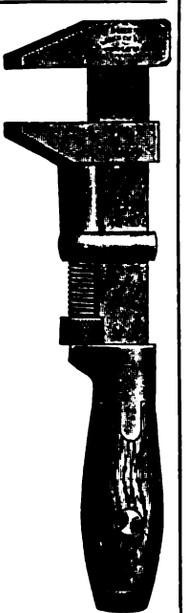
L. COES'

Genuine Improved

KNIFE HANDLE

PATENT

Screw Wrenches.



MANUFACTURED BY

COES WRENCH CO.,

WORCESTER, MASS.

Established in 1839. Registered April 9, 1895.

Patented Dec. 15, 1891. Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞Straight Bar, Extra Long Nut for Screw in Jaw.☜

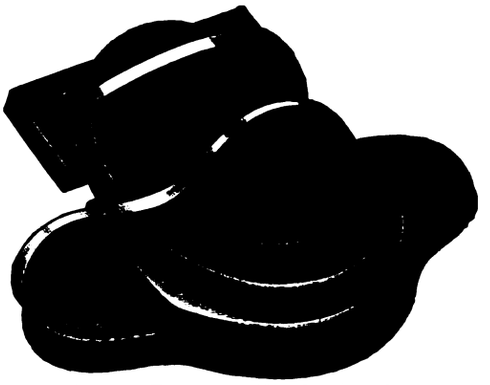
The BEST MADE and STRONGEST WRENCH in the MARKET.

J. C. McCARTY & CO.
JOHN H. GRAHAM & CO. } New York Agents.

New Stamped Metal Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

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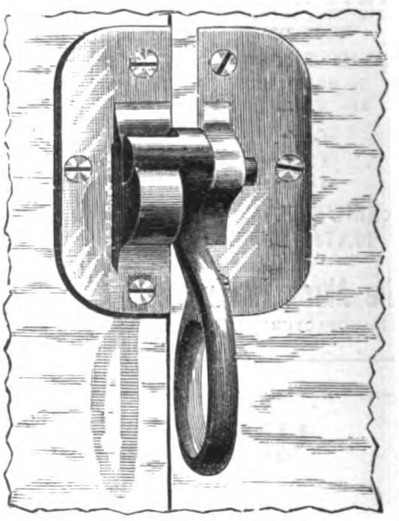
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The CONROY PATENT Refrigerator Fastener.

The only Practical Fastener in use.



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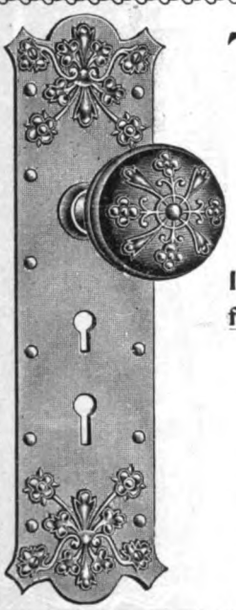
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
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THAN ANY OTHER COMPANY.

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Factory and General Offices,
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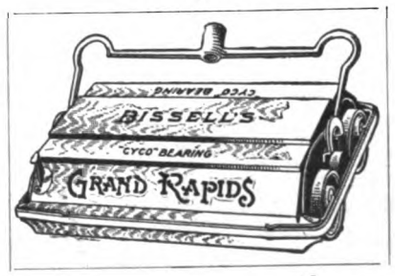
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BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
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MAKE NO MISTAKE.
40 years' reputation is guarantee enough as to the high standard of the BEST SAWS MADE.

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All Sizes and
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My Specialty is to Manufacture for Other Parties.
Reasonable arrangements can be made. WRITE ME TO-DAY.
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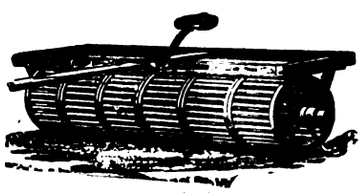


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COPPERED, TINNED, NICKEL PLATED.
. . . WE MAKE TONS OF THEM. . . .
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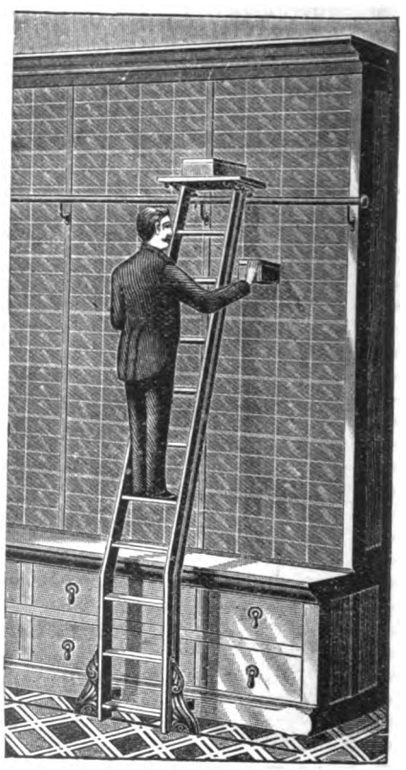
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Especially adapted for Hardware Stores.



The newest, neatest, simplest, easiest operated, and safest store ladder made. Highest Award World's Fair. Write us.

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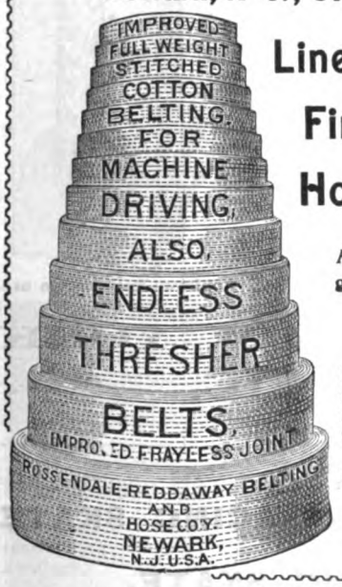


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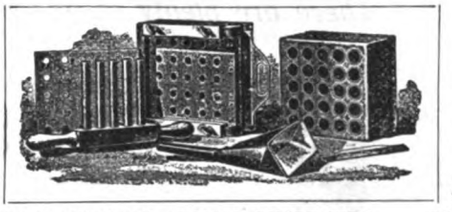
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Linen Fire Hose

All grades.

Made to meet requirements of Underwriters.



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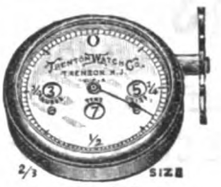
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An up-to-date machine. **List, $60.**
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If you have a first-class store put in a first class wheel for your leader. THE "SPARK" will fill the bill. Address
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RETAIL DEALERS

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Everything in that line.
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It is the Strongest Umbrella on the globe.
Write to us, and let us prove it.

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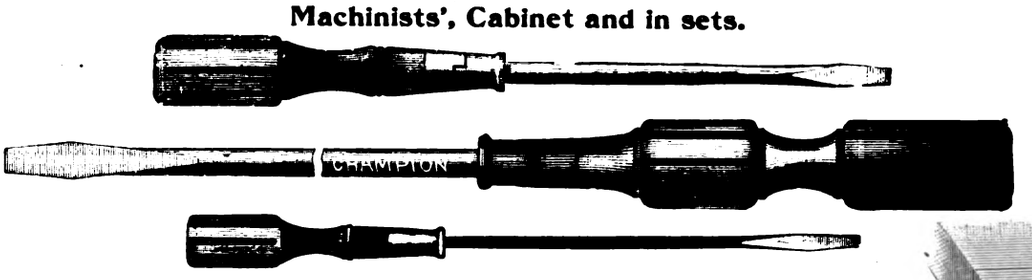


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TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



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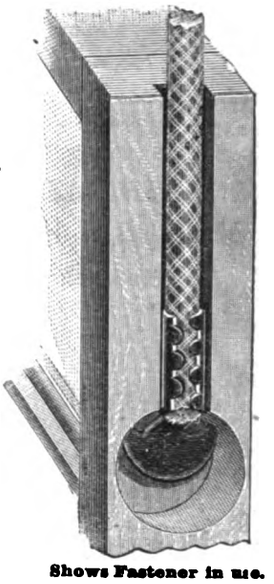


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Sash Cord,
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and
Sash Ribbon
Fasteners.



Shows Fastener in use.

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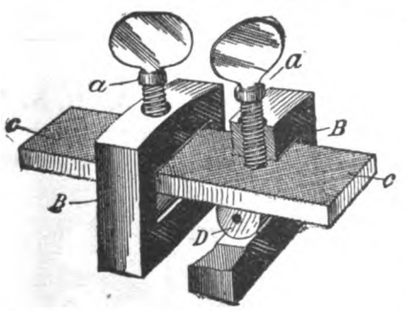
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CALLED THE
DONOGHUE RACING SKATE.
Made in three lengths, 14, 16, 18 inches.



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A New and Useful Article
Which Speaks for Itself.

This device is simple, being composed of but three parts—two side pieces and a short file. It is easily adusted at once. A child can operate it perfectly and do as good work as a machine shop.

It will adjust itself to any make or style of skate.

It always works and may be carried in the pocket.



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New York Office in charge of TOWER & LYON. **Torrington, Conn.**

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TRADE MARK

CAR SEALERS.

CUTTING NIPPERS.

This Trade Mark is stamped on all Saw Sets and other Hardware Specialties of my make.

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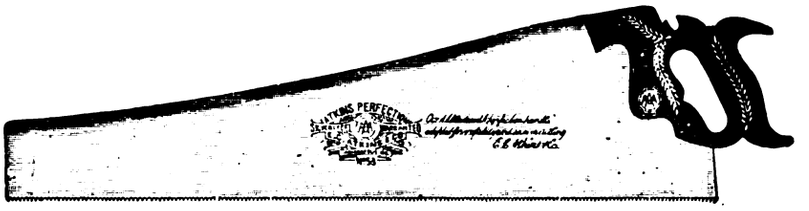
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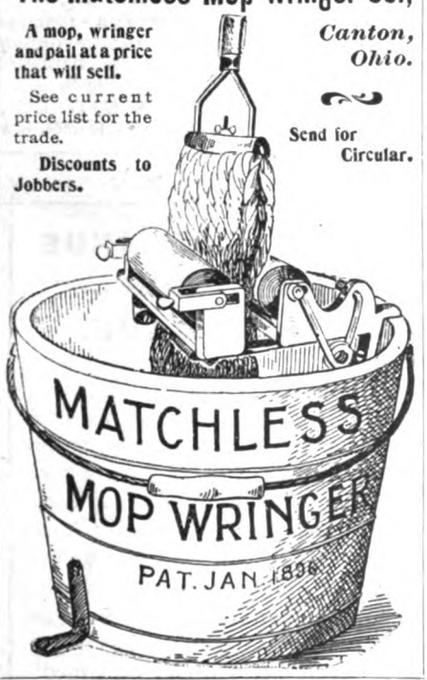
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Discounts to Jobbers.

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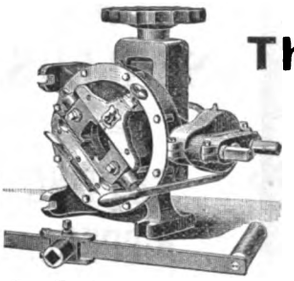
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PIPE THREADING AND CUTTING OFF MACHINES, ADJUSTABLE STOCKS and DIES, WRENCHES, PIPE VISES, PIPE CUTTERS, CLAMP DOGS.

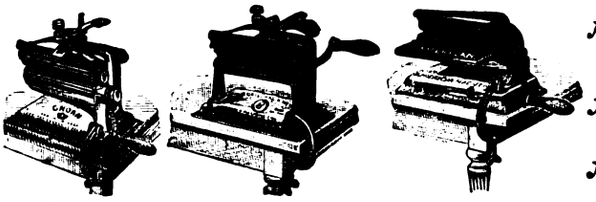
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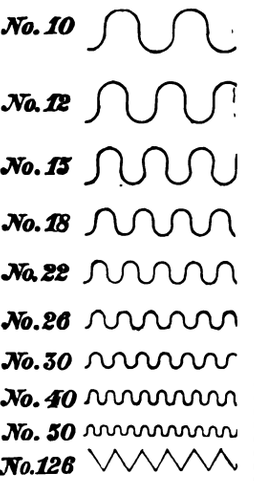
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Perfection Meat Cutters,

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We have a Hand Elevator especially adapted for use in stores, warehouses, etc., and we are sole manufacturers of

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DUMB WAITERS,



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... AND ...

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Complete Portable Steam Laundry Combination

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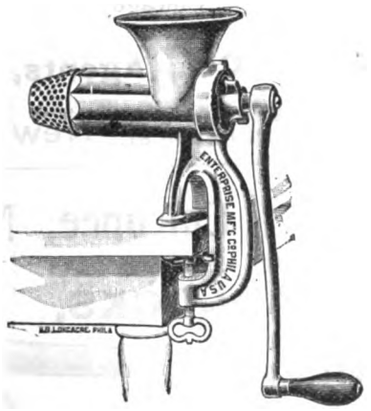
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MEAT CHOPPERS

OUR NEW MODEL



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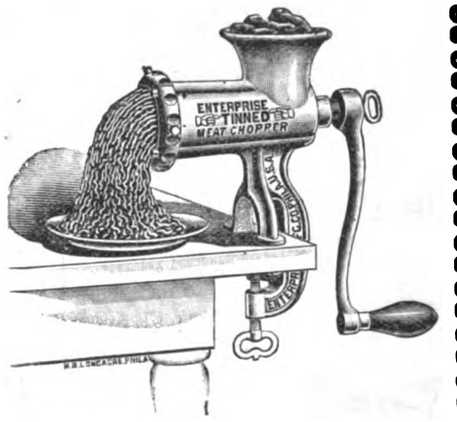
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OUR STANDARD MODEL



Consult your Jobber

Descriptive Catalogue Free

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New York Branch, J. C. McCARTY & Co., 10 Warren Street



The Canton Steel Roofing Co., Canton, Ohio.

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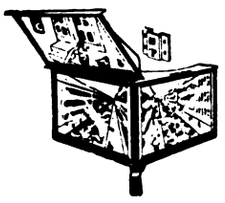
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RESERVOIR PUNCH

For Euchre and Whist Parties.

This Pocket catches the pieces punched from Tally Cards, thus preventing a littering of the carpet.
Is hinged, can be opened, emptied and closed in an instant.
Of great value to Railroads as it prevents the replacing of pieces punched out of monthly or commutation tickets.
Also valuable in Restaurants where punch tickets are used.

PATENT APPLIED FOR.

F. J. MATTISON, PATENTEE,
50 Warren Street, N. Y., U. S. A.



You take no risk on the quality. We make only the best!



Sand Papers IN **Reams and Rolls**

- Flint Paper
- Garnet Paper
- Emery Paper
- Emery Cloth

HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

BAEDER, ADAMSON & Co

730 MARKET STREET, PHILADELPHIA.
67 BEEKMAN STREET, NEW YORK.
143 MILK STREET, BOSTON.
182 LAKE STREET, CHICAGO.

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The Best Equipped File Works in the World

Samuel W. Allerton. Prest. C. C. Clarke, Sec'y & Treas. A. Weed, Vice-Prest. & Gen. Manager.

The Arcade File Works

Established 1842.

WEED'S IMPROVED CUT
GUARANTEE SEAL
ALL FILES ARE FULLY GUARANTEED
SPECIAL TEMPER

Improved Increment Cut

THE BEST IN THE WORLD.

ANDERSON, IND.

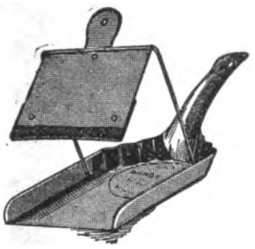
New York. Chicago.

ALLERTON, CLARKE CO., Agents,

118 Lake Street, CHICAGO. 97 Chambers St. and 79 Reade St. New York.

The DANDY SINK CLEANER.

. . . A perfect and complete



Household Specialty.

A Sink Cleaner and Shovel Combined. . .

Tidy housekeepers will throw away the dirty sink broom and buy the **Dandy Sink Cleaner on Sight.** . . . . .

TRY IT AND BE CONVINCED.

For sale by all Wholesale Hardware Dealers, and by the patentee and manufacturer,

John W. Sudlow, 986 HALSEY STREET, BROOKLYN, N. Y.

AMES SWORD CO., Chicopee, Mass.

OUR SPECIALTIES:

PERFECTION PADLOCKS,

All Sizes, ½ inch to 2½ inches.

PROTECTOR REVOLVERS,

THE GREATEST NOVELTY OF THE AGE.



Compressed Seam Fork Sides and Handle Bars.

CORRESPONDENCE SOLICITED.

U. S. CLUB SKATES

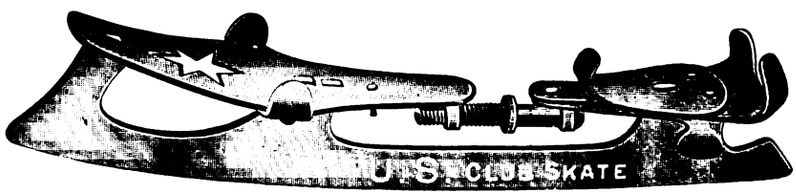
For Season of 1897 and 1898.

Manufactured by **P. Lowentraut.**

"U. S." LADIES CLUB SKATE.



"U. S." CLUB SKATE.



SELLING AGENTS:

JOHN H. GRAHAM & CO.,

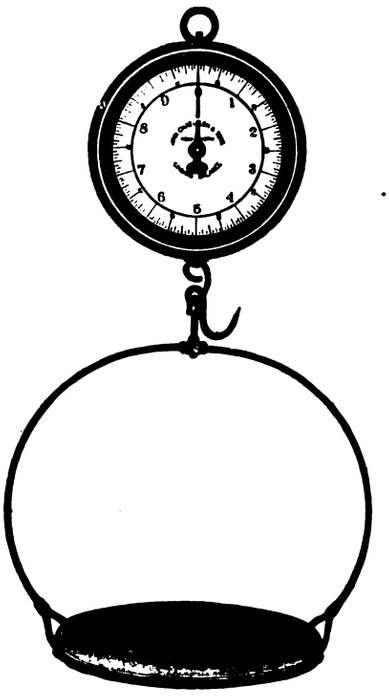
P. O. Box 1042. 113 Chambers St., New York.

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CHATILLON SPRING SCALES.

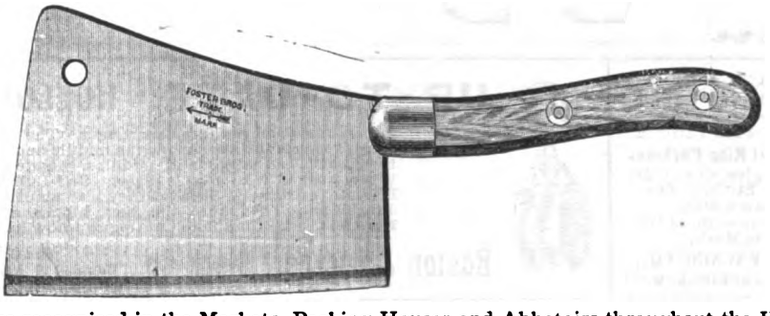
For more than **sixty years** we have carried on the business of making **Spring Scales,** and have made it OUR SPECIALTY.

All our Scales are warranted to weigh accurately and to be perfect in workmanship.



Our experience in the business, together with our unequaled facilities for manufacturing, enables us to produce a superior article, and thus to maintain the well-known reputation of **Chatillon's Spring Scales** as above that of other makes.

FOSTER BROS.' BUTCHER KNIVES, CLEAVERS, STEELS, &c.



These Tools are recognized in the Markets, Packing Houses and Abbatoirs throughout the United States as the standard of excellence, quality being the first consideration. We carry in stock every style and size of Knives, Cleavers and Steels used in cutting meat; also knives for kitchen use in Hotels, Restaurants and for domestic purposes.

FRIEDERICH DICK'S MAGNET DIAMOND STEELS.



By careful workmanship and the use of a special steel in their manufacture THEY HAVE BECOME FAMOUS THROUGHOUT THE WORLD.

PHOENIX KNIFE CO.'S POCKET KNIVES.



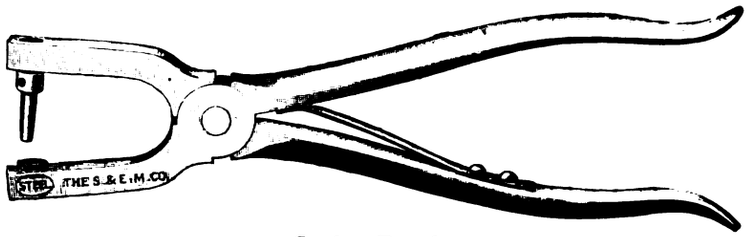
Finest quality American Pocket Cutlery in large variety—Knives that are good sellers and will give satisfaction to the user.

JOHN CHATILLON & SONS,

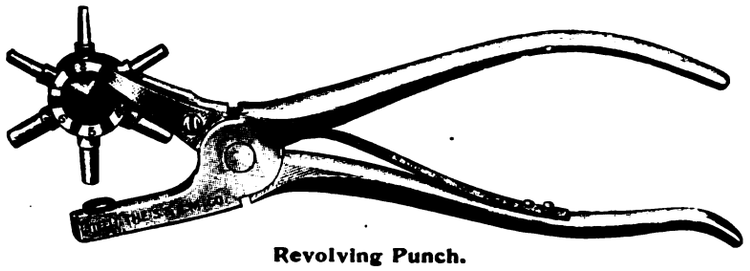
ESTABLISHED 1835.

85 to 93 Cliff St. and 12 Jacob St., - - NEW YORK CITY.

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Spring Punch.



Revolving Punch.

IF YOU SELL THESE GOODS

You can get those of the best

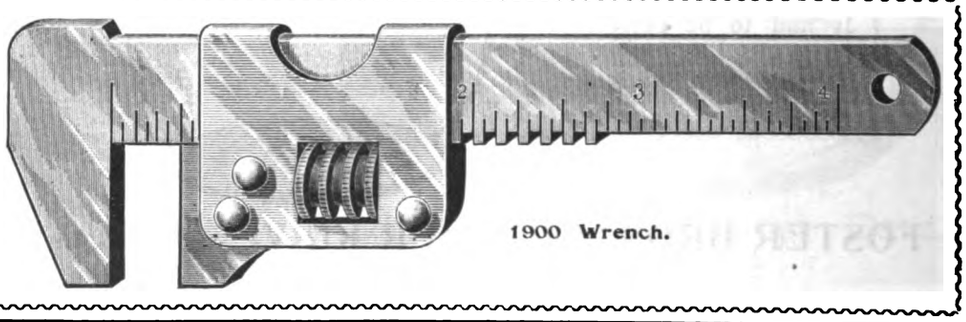
QUALITY and DURABILITY

At low prices from

THE SMITH & EGGE MFG. Co., BRIDGEPORT, CONN.

NEW YORK AGENT,
J. J. HALPIN,
62 Reade St.

PHILADELPHIA AGENT,
W. E. TRULL,
13 N. Sixth St.



1900 Wrench.

TRADE MARK.



A. CHIPMAN, Treas.

GOULD'S STEAM & WATER PACKING

Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
THE GOULD PACKING CO.,
EAST CAMBRIDGE, MASS.



UP-TO-DATE. HOLLOW STEEL BLOCKS.

As light as wood and much stronger. The only Steel Block where the straps extend down below the middle and the pin passes through them, and has edges and middles rounded to protect the rope. When bushed with Ford's Patent Self-Lubricating or Adjustable Five-Roller Bearing Sheaves they lead all others for cheapness and durability. To insure the best blocks always specify **STAR BRAND.** 1897 Complete Catalogue J now in preparation. . . . .

Boston & Lockport Block Co., Successors to **Bagnall & Loud Block Co., Boston, Mass.**

BIG PAY! *TAKE AN AGENCY FOR THE* BEST MADE!

Royal Polished Steel Roaster and Baking Pan.



Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel,* in 7 sizes, including *inside pans* and *grate bars* in all sizes. *Bakes finest bread.*
For terms, address
THE ROYAL POLISHED STEEL ROASTER CO., Troy, O., U. S. A.

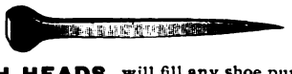
TUCK M'F'G CO., Brockton, Mass. ESTABLISHED 1852.

Tools, Cutlery and Springs.



SCREWDRIVERS OF ALL KINDS - - SEND FOR CATALOGUE.

TURF NAILS, Nos. 1 to 5.



FRENCH HEADS, will fill any shoe punched or creased. Nos. 3 to 8.



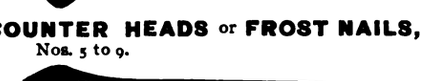
REGULAR HEADS, Nos. 5 to 14.



CITY HEADS, for shallow creased shoes, Nos. 5 to 9.



COUNTER HEADS or **FROST NAILS,** Nos. 5 to 9.



PUTNAM NAIL COMPANY

NEW DEPARTURE.

In consequence of the action of the National Hardware Association, we now propose to sell direct to the general jobbers of the country. . . . . .
All restrictions have been removed as to quotations to be made by the trade from ocean to ocean. . . . .
The high quality of the Putnam Nail makes it an easier seller at an advanced price over nails made by rolling and shearing. . . . . .
In case local dealer does not handle our goods, address

The Putnam Nail Co., Neponset, Boston, Mass.

235 Lake St., Chicago, Ill.
12-14 Drum St., San Francisco, Cal.

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THE NEW
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ASTOR, LENOX AND
TILDEN FOUNDATIONS

HARDWARE

VOL. XVI. NOVEMBER 10, 1897. NO. 3.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - - - - - ASHLAND BLOCK.
BOSTON, - - No. 33 EQUITABLE BUILDING.
CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

Subscription, $1.00 per year. Subscription, Foreign, $1.50 per year.

JAMES H. KENNEDY, Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRANK REIFSNIDER, - Western Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

There is a noticeable diminution in the orders for regular standard goods now experienced by the trade, the demand largely becoming of a nature to cover articles considered desirable for holiday business, and approaching more closely household supplies of the useful and ornamental varieties, rather than those recommended for their labor-saving devices. Still, among the manufacturers many are engaged in filling orders made possible by a foreign demand, which is keeping up remarkably well in many lines where our superior skill and acknowledged inventive ability are afforded full scope.

The points in the Southern country affected by yellow fever conditions which seriously impeded a fullness of trade demands, have been benefited by good frosts, making quarantine restrictions less obligatory, and in a measure restoring the demand for such staple lines of merchandise, requisitions for which had been for months necessarily limited. A resumption of traffic and early revival of favorable trade conditions may now be anticipated, with which to initiate the anticipated improvement in business for 1898.

Up to the present time manufacturers and jobbers report better orders from the West than any other section, as the prevalent rains have been followed by cooler weather, thus greatly stimulating local sales. In regard to prices: while the indications point to a reconstruction of a number of quotations before business receives its proper impetus for another season, the present finds no radical advances to prove a deterrent influence on current orders.

Raw material in many instances is well ordered ahead of ordinary requirements, even beyond the needs of the current year; this of itself has a natural tendency to restrict unwholesome competition and strengthens the market in view of future transactions.

Our manufacturing facilities are of such importance it requires but slight stimulation afforded by prospects of future requirements to injudiciously push them to the utmost and stagnate by overproduction the important field of domestic demand. Everything seems favorable for 1898, and preparations are being made by many large establishments, as will be noticed in the "improved conditions" of our "Manufacturers Record" in every issue to be in position to take advantage of the genuine and far-reaching revival of our industrial strength and manufacturing importance, which will equal in the year to come, the agricultural prosperity which forms the happy conditions of the present.

The Bicycle Trade of the Future.

The bicycle business of the country has evidently reached bed rock, and in the calculations for the future now palpably before the large manufacturers, there are fewer elements of uncertainty as to a profitable outcome than for the two seasons just past.

The desire among the manufacturers capable of turning out a large product will be to keep the trade of the country within their reach, no matter whether it runs on a basis of low-priced product of larger volume, or is required to sustain a reputation for superiority already established. They want, and are willing to take, what they can get of it, and with the unequalled facilities which mark the opening of the 1898 season, they will leave the smaller makers steering between Scylla and Charybdis, between the vale of bankruptcy or a scale of profit anything but self-supporting.

The few factories which still entertain the belief in a growing export trade for American cycles, will be those possessing the power to turn out a surplus beyond domestic requirements; with them the foreign market furnishes an outlet for any excess that might otherwise create a glut of wheels and repeat the experience of 1896. With foreign depots, even if but little profit is shown in direct traffic, the knowledge that prices abroad have no material effect on the prosperity of the cycle trade here, will create the desire to keep up a connection that may possibly prove a safety-valve governing the business success of the manufacturers participating in the export business.

The havoc that has been made among the smaller makers, who in one way and another have made the present season unprofitable, will have the effect of destroying the inordinate desire to embark in the cycle business in competition with years of experience and limitless resources, thus leaving the past masters of the industry in control of the situation. They will so use it as to make the season of 1898 level up the output to an intelligent standard of values, encouraging no extravagant expenses to market the product, and entertaining no inflated ideas regarding a fair profit.

This will doubtless have the effect of making the coming season one long to be remembered for its freedom from retrograding influences. Products will be sustained by the leading companies, and not largely exceeded. Some forms of high-flown, expensive exploiting, such as unlimited cycle shows, and thousands of dollars daily spent in unconvincing cycle races, will no doubt be restricted, and a healthier state of affairs result therefrom, settling down to a legitimate business linked with efforts to market the product, which while pushing and persistent, will still be dignified and prosperous.

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Our Export Prosperity.

Never before in the history of our export trade, has the future presented such features of encouragement to our producers of iron and steel and manufacturers of improved tools and machinery. Statistics of the most encouraging character greet us upon every hand, and a growing demand for our productions of skill in iron and steel and other metals, make possible a continuance of very prosperous conditions of trade.

The future will present claims for continued activity on export lines which have never previously been seriously entertained. Already have our rapidly-increasing exports of iron and steel—even tin is among the possibilities—so convinced the arrogant British competitors that our popular ascendancy over industries arbitrarily deemed their own, need no longer be deemed either illusive or visionary in character. We have at last compelled this most combative of contestants to regard us as aggressive competitors in any field of industry requiring superior skill, economy of construction, and a date of delivery that may be calculated upon as being definite. Nothing, except it be high tariffs or obstructive restrictions, imitating methods of our own, can keep us out of those markets of the world that already possess the knowledge of our productive supremacy.

Give us to know the needs of a foreign constituency, and at once we become a formidable bidder although our average rate of wages is admittedly higher by comparison than any country which is our natural competitor. It will at once be made evident that the directness of American methods, the conscientious devotion to an employer's interests, the intelligent and undeviating skill of our workmen, who are always keenly alive to any possible improvement by which labor may be saved or product made more perfect, are points of superiority in our artisans that have made possible this unprecedented expansion of our foreign trade.

Let it be fully understood this state of affairs has not come to us unsought, but is the result of a commercial development through persistent and sustained endeavors, following a period of depression that made every effort necessary, and the knowledge of a possible recurrence in some uncertain future will inspire us to hold and keep advantages we have earned so successfully.

The Seymour Cutlery Co., Holyoke, Mass., successors to the Henry Seymour Cutlery Co., manufacturers of shears, scissors and sheep shears, announce in their card elsewhere in this number, that they will give an elegant display show case to their customers, the same measuring 3 feet by 22 inches. The case has antique oak trimmings, curved plate glass around the display shelf, and receptacle for stock. Further particulars in regard to this generous offer can be obtained by writing to this company at the address above given.

A writer in *Hardware* declares that "advertising is a commodity—as much so as dry goods, shoes or flour." "Yet there is a difference," remarks the *Philadelphia Record*. "When a man buys dry goods, shoes or flour, he usually wants such commodities in limited quantities. When he wants publicity he wants a first-rate article, and he wants it by wholesale. Half the success of business nowadays is in knowing how these wants may be most fully satisfied."—*Pottsville (Pa.) Chronicle.*

National Hardware Association.

The fourth annual convention of the National Hardware Association will be held in Buffalo, N. Y., from November 17th to the 20th, both inclusive. It is hardly necessary to say that arrangements are being made for the hospitable entertainment of a large number of members who will be present on this occasion. The local arrangements are in the hands of a committee consisting of Hobart Weed, of Buffalo, chairman; Gen. C. Whitney Tillinghast, Troy; Charles H. Turner, Albany; G. D. Palmer, Rochester; Harry Walbridge, Buffalo; John R. Griffith, Philadelphia; George J. Laighton, New York. The programme will include a smoker at the Ellicott Club, and a dinner at the headquarters in the Hotel Iroquois.

The annual convention of the Equity Protective Stove Association of the United States was held at the Troy House, Troy, N. Y., some days since. Prominent stove manufacturers from all parts of the country were present. Various matters of interest to the stove trade were discussed. It was announced that the stove manufacturers had decided not to put up the price of stoves, and that the condition of the stove trade was generally satisfactory. The annual election resulted in Charles A. McLeod, of Troy, being chosen president. E. T. Anthony, of Boston, was elected secretary and treasurer.

The monthly meeting of the New England Hardware Dealers' Association will be held at the United States Hotel, Boston, on Wednesday, November 10th, at 6:30 P.M. The special guest and speaker of the occasion will be Pierre Humbert, who will speak upon "The Development of the Klondike Gold Region." The entertainment committee upon this occasion are George W. Burditt, Charles O. Tukey, James W. Eustis.

The officers of the Heavy Hardware Jobbers' National Union for the ensuing year, are as follows:

President, W. B. Dean, St. Paul.
First vice-president, Robert Donahue, Burlington.
Second vice president, Gaius Paddock, St. Louis.
Third vice-president, F. K. Maus, Chicago.
Secretary and treasurer, W. C. Brown.

Hardware Terms Illustrated.



A CLUB SKATE.

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Cleveland Machine Screw Co.

Some recent changes that have occurred in the manufacturing circles of Cleveland, Ohio, cannot fail to be of interest to the Hardware trade in general. They relate to the advance step taken recently by the Cleveland Machine Screw Co., a concern that was established six years ago, and that has steadily prospered and progressed from that time to the present, until to-day it has correspondence with all sections of the globe, and is probably the largest producer of steel balls for ball-bearing bicycles and other machinery, in the world.

A short time ago some of the original stockholders, who desired to retire from the active management of the business, disposed of their interests to a syndicate of French capitalists, who had watched the growth of the enterprise, and were desirous of securing a part thereof. With this addition of strength, it was decided to reorganize the company, and enlarge its possibilities. Its capitalization was therefore increased, and at present it stands at $3,000,000.

In the past, the principal business of the Cleveland Machine Screw Co. was the manufacturing of steel balls for ball-bearing bicycles, but recently the business was increased, so that the company are now manufacturing balls for large machinery. The screw machines which they have been constructing, and on which they have exclusive patents, have been shipped to all parts of the world. For several years the plant ran night and day to its full capacity, but during the past year it has made so many improvements to its machinery, and so enlarged its facilities, that the output now in ten hours is equal to what it formerly was in twenty-four hours. Every department of the original factory is running to its full capacity, and the A. L. Moore factory, or stamping department, is being operated night and day to keep up with the orders.

The French syndicate is represented in the company by M. B. Johnson, who is chairman of the board of directors. A. L. Moore, formerly of the A. L. Moore Co., is now president and general manager of the Cleveland Machine Screw Co., the name of which was not changed by the reorganization and the bringing in of this foreign capital. It is not too much to say that no man in the country is better or more favorably known to the cycle trade than Mr. Moore.

The A. L. Moore Co. was organized in 1895 to sell bicycle material and supplies. The phenomenal growth of this concern, and the magnitude of the business they succeeded in obtaining, by their modern business methods, keen foresight and unwearied enterprise, led them to complete the stamping works, of which A. L. Moore is president, and of which notice has already been made in *Hardware*. The capacity of the plant was doubled last year, and new additions in the shape of elegant buildings for a second doubling of the product, are now under way. The A. L. Moore Co. will continue as sales agents for the products of the combined forces. That the success of the past will be continued and greatly increased in the future, is made sure by the fact not only that Mr. Moore is the executive head, but from the fact also that he is associated with men who have so far successfully performed their share of the labors of life, and who with renewed experience and larger opportunities, are certain to do more effective work in the future.

At the late annual meeting of the Cleveland Machine Screw Co. the following officers were elected: A.L. Moore, president; M. B. Johnson, vice-president and chairman of the board of directors; J. B. Climo, secretary and treasurer; J. B. Clyne, superintendent, and J. J. Grant, mechanical engineer. The board of directors consists of the following gentlemen: J. B. Climo, J. B. Clyne, M. B. Johnson, A. L. Garford, P. H. Jordan, H. H. Johnson and A. L. Moore.

Mr. Climo, who has been with the Cleveland Machine Screw Co. since its organization, remains, as will be seen by the above, secretary and treasurer of the new concern. Mr. Clyne is an authority on mechanical matters, both at home and abroad, and is an expert on the subject of ball-bearings and similar manufactures. Mr. Grant, who has just returned from Europe, who occupies the position of mechanical engineer, is an expert in his line, and is the inventor of the automatic screw machine which has made this company famous throughout the world. Mr. Jordan, who is also a member of the new board of directors, is also connected with the A. L. Moore Co. The board also includes A. L. Garford, who is famous in the trade as president of three leading saddle manufacturing concerns, two national banks, and last, but not least, president of the National Board of Trade of Cycle Manufacturers.

In speaking of the recent additions to the establishment in the line of new buildings, etc., President Moore says: "We simply had to build, or take our men off the road and stop taking orders."

As soon as the annual meeting of the stockholders above mentioned had occurred, orders were immediately telegraphed to several Eastern concerns for a large supply of new presses and other machines. On the morning following, a contract was signed for a building, the exact duplicate of the one then in operation, and ground was broken on the same afternoon. At the present time a large force of men are at work on the foundations, and according to the terms of the contract, the completed building must be ready by December 1st, which will require work both by day and by night. Mr. Moore states that parts for half a million bicycles will be turned out by the factory before the end of the season.

Tasted Leather and Iron.

"Talking about a fine and discriminating taste for whiskey," said the old gentleman over in the corner of the store, "recalls to my mind an incident that occurred up in the Catskills last summer. A friend of mine was entertaining a number of gentlemen who prided themselves upon their keen sense of taste in the whiskey line, and subsequent events showed that they were justified in their boast. The host had just received a keg of the finest Kentucky whiskey to be found, and opened it with anticipations of pleased commendation from his friends. One of them drained his glass, smacked his lips, and said critically: 'That's mighty good whiskey, but I can't understand the taste of iron that goes with it.' The other one said: 'Yes, I noticed that, and also detected a slight taste of leather.' The host was quite chagrined, and when his friends had departed, determined to investigate. He emptied the keg, and there in the bottom found a small leather-covered carpet tack."

From present indications, Manager Frank W. Sanger, of the Fourth Annual Sportsmen's Exposition, to be held January 13th–22nd, at the Madison Square Garden, New York, will have no trouble in making a selection of the most desirable exhibitors from too large an array of applicants to be accommodated. Every exhibitor, so far as heard from, who has shown in the three previous Sportsmen's Shows at the Garden, has been well satisfied with the results to business, and is anxious to come in again. The management promises numberless up-to-date novelties in all manner of sporting goods and equipments. There will, in all likelihood, be rifle and revolver contests, fly casting contests; in fact, there will not be one moment while the show is in progress without action of some kind.

Mrs Nexdoor—I haven't seen your parents for ever so long.

Little Fannie—Mamma has got scarlet fever and cannot come out.

Mrs. Nexdoor—And what has your papa got?

Little Fannie—He's got six months, and he can't come out either.—*London Fun.*

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Talk About Alaska.

Alaska is two and one-half times as large as Texas.

It is eight times as large as all of New England.

It is as large as the South, excluding Texas.

It is as large as all of the States east of the Mississippi and north of the Ohio, including Virginia and West Virginia.

It makes San Francisco east of our centre.

Its coast line is 26,000 miles.

It has the highest mountain in North America.

It has the only forest-covered glacier in the world.

It has the best yellow cedar in the world.

It has the greatest seal fisheries.

It has the greatest salmon fisheries.

It has cod banks that beat Newfoundland.

It has the largest river in the world.

A man standing on a bank of the Yukon, 150 miles from its mouth, cannot see the other bank.

The Yukon is twenty miles wide 700 miles from its mouth. With its tributaries it is navigable 2500 miles. It discharges one-third more water than the Mississippi. The water is fresh fifteen miles from its mouth. It has more gold in its basin than any other river.

Yukon basin gold is estimated at $5,000,000,000.

Silk should be worn next to the body, then woolen, and then furs.

Citric Acid should be taken to prevent scurvy.

Snow glasses should not be forgotten.

Nowhere are mosquitoes so numerous.

There are two kinds of poisonous flies.

There are no snakes in Alaska.

Moose are plentiful. The flesh resembles horse flesh.

It is probable that in twelve months Dawson will be within four days of Juneau. In Central and Northern Alaska the ground is frozen to a depth of 200 feet.

Snowfall in the interior is very light—six inches or so.

The heaviest rain and snow are on the southeast coast.

No land contains finer spruce timber.

In its low temperatures gold filling in teeth contracts and falls out. Use amalgam.

Men born in southern latitudes have become insane in the long dark.

Take a chessboard and men. They prevent dementia.

A temperature of 75 degrees below zero has been recorded.

When it gets lower than 50 there is no wind.

A tent is as good as a house, and is cheaper.

No shelter is needed except when the wind blows. At other times a sleeping bag answers all purposes.

Just below rapids ice forms only nine feet thick, and there fishing is done. In other places it will reach forty feet.

In the dark season twilight lasts six hours and almost any kind of work can be done.

Elk, cariboo and grouse are common, and easily killed.

Don't eat snow or ice. Melt them. Else quinsy.

In low temperature the inside of the throat sometimes freezes. This is locally called "frost burning."

For frozen fingers use cold water.

Sweat under blankets in summer or get rheumatism.

In Summer all land not mountain is swamp.

Talk on the ice pack is heard a half mile.

An expert placer miner can pan dry.

Alaskan "dust" is as big as wheat.

Some gold is fine enough to float.

Wear silk gloves and then fur.

Reindeer will be the future locomotives.

Alaskan dogs are wonderfully intelligent—the result of selection and heredity.

The natives are all honest.

Hay grows as high as a man's head.

Hardy vegetables can be raised.

All streams show true gold fissures.

Take plenty of flour. Buy all you think you need, then buy more. Last winter a man killed himself because he had five pounds of baking powder and no flour.

Under act of Congress communities of miners can make their own laws.

No thief gets a fairer trial anywhere nor any prompter execution.

Make caches on platforms six feet high. Wolves.

It will pay to wait a year or two. It costs $1000 now and will cost $200 then.

All distances are gigantic. It is 2000 miles from Sitka to Klondike.

All wood in the Aleutian Islands grew on glaciers in Alaska.

Whole forests break into the sea

Some streams are bridged by glaciers.

Some wood is beautifully polished by glacier action.

Avalanches in the interior are unknown.

Owing to dryness there is not much suffering from the cold.

Take a 40 80 rifle, with telescope sights.

One small tribe makes $2500 a year from silver fox skins. They are worth $250 each.

Exposed portions of the body freeze in three minutes.

Enough library: One Bible, one Shakespeare.

Snowshoes not needed in the mine country.

Buy mines from discouraged miners.

Trading companies will not carry goods for competitors.

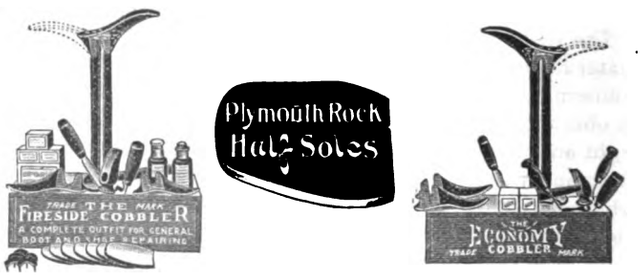
Next year competition will bring down their prices 50 per cent.

Meals on the boat up the river cost $1 each.

Men who have gone this winter to make their living sawing wood will not have time to say much.—*Chicago Times-Herald.*

Iron Lasts and Home Repairing Outfits.

The Root Bros. Co., Plymouth, Ohio, manufacturers of Buckeye iron lasts and stands, cobblers' sets and Plymouth Rock halfsoles, are having a tremendous sale in this line of goods. Their fall business usually does not open up before



October 1st, but this year orders began piling in as early as the first of August, and they are now obliged to run both night and day to keep up with the demand. We illustrate herewith their "Fireside" and "Economy" cobblers, which are great and popular sellers, and "Plymouth Rock" halfsoles, which are well known to the trade. In addition to these two outfits, they make a full line of cobblers' sets, their "Buckeye" lasts and stands being used in all. They are staple sellers with the trade, and are for sale by all up-to-date Hardware dealers. Circulars and prices may be had by addressing the manufacturers.

The Collins Co., of Collinsville, Conn., in order to better their facilities and to meet the demands of their increasing business, are making extensive improvements in their plant at Collinsville, and have placed the contract with the Berlin Iron Bridge Co., East Berlin, Conn., for a large addition to their forge shop. The new construction will be entirely of iron, in order to have it fireproof, no woodwork being used in the construction.

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The Requirements of a Good Salesman.

The following very entertaining points are from a speech delivered by J. R. Prescott, of the Anthony & Cowell Co., Providence, R. I., at a recent meeting of the New England Hardware Association, in Boston. Mr. Prescott is thoroughly competent to speak upon the subject of "What Constitutes a Good Salesman":

The speaker first touched upon the employer's responsibility in the development of the salesman, the employer being largely responsible for the quality of the salesmanship of the present time. A first-class salesman presupposes a first-class house. The employer should furnish the proper environment for the best development of the prospective salesman. Where there is feebleness in the selling force, there is generally some antecedent feebleness in the store management, which reacts on the clerks.

The store is practically a commercial school, where the boy or young man gets his sole knowledge of business. The employer should never forget that he is first of all a teacher and an example. In the school or college the teacher counts for more than the system. The most successful of these institutions have been those whose teachers have been men of strong personality, who have influenced pupils by the force of personal contact. The same is true in the commercial schooling a boy gets in a business house. It's the strong personality and inspiration of some employer that influences the career of the boy, and furnishes him with a stimulus and an ideal. The employer cannot escape this great responsibility of example, and the speaker considered this the first and most important requisite in the training of a salesman.

It is for the interest of the employer to make thorough business men out of his clerks. They are likely to be his competitors some day, and the better training they get in his store the better competitors they will be. The worst competition comes from men who have had a superficial training, whose employers have failed to impart sound business principles and methods. It's the competition of the unintelligent dealer that hurts.

Referring to the responsibilities of the salesman, the speaker emphasized most of all thoroughness. This means a thorough knowledge of the goods, their construction and uses. The man who knows how an article is made, why it is so made and how it should be used, can talk about it interestingly and convincingly; without this preliminary knowledge, he can only show the goods in a slip-shod way, and rely upon the inspiration of the moment for something to say about them. The best inspiration comes to the man who is prepared, and no great salesman or great business man was ever produced by any process except through a thorough, painstaking knowledge of details.

Knowledge of the goods leads to a knowledge of men, and knowledge of men enables the salesman to know what to say and what to leave unsaid, how much of the story the goods should tell, how much the salesman should tell. The whole selling process hinges on previously acquired knowledge of the article being sold, and the first duty of the salesman to himself and to his employer is to know all about what he is selling.

To get this knowledge the salesman must study as well as observe. Observation is good, but the progressive salesman will appreciate the advantages of special study. Business, like a profession, requires study, and the man who reaches the top of the ladder must apply himself.

The mastery of some department is important. Know that thoroughly, and be the one clerk in the store who is an authority on that department. The well-equipped salesman should learn to write advertisements. This will show him where his knowledge is weak, and he will strengthen himself accordingly. Writing about a thing makes that thing clearer.

In the "Good Old Times!"

Amid these hazy November days, the "Man in the Corner" at Bingham's, Cleveland, grows reminiscent, and discourses of things that are of the past. A package of old papers, in a faded yellow wrapper, and tied with a bit of tape, has fallen into his hands, and he naturally finds them interesting—old price lists with quaint, ornamented headings and heavy, ornate borders; Oliver Ames' first letter to the house—in '43—quoting a hundred dozen shovels at five per cent. discount in six months and an additional five per cent. for cash; a bill from Sidney Shepard, of Buffalo, for lead pipe furnished in exchange for pig lead, which was sold at a profit that nearly cut the price of the pipe in two; bills for cut nails at $5.25 for 4's to 20's, crowbars at 6½ cents and copper wire at 47 cents per pound; bills for manilla bed cords, snuffers, knitting pins, marbles and Jew's harps; bills of lading for shipments from Pittsburgh and Columbus by canal, the latter endorsed with the shippers' hope that the "goods will arrive in due time"; a letter from Atkins, Allen & Co., expostulating with William Bingham & Co. for wanting a better grade of saws than could be made from steel then in the country (they always were sticklers for quality), a quotation on box stoves in '43, payable April 1st, 1845; quotations of Collins' axes at $13.50 per dozen; bar iron at 4 cents for base sizes and sheet iron at 7¼ cents; a quotation on brass Hardware, evidently for a steamboat; a number of invoices for imported goods which are now never bought abroad, and priced in York shillings, etc., etc.

With these relics as a text Mr. Comstock recalls the fact that in 1841 it took from three to four months to get goods from the factories—thirty to sixty days of ocean transit, and an equal time from New York to Cleveland—by river to Albany, canal to Oswego and lake to Cleveland. Goods for Cincinnati took the same route and went by canal from Cleveland to Portsmouth, and thence by river. Land communication was by stage coach and prairie schooner, which wound their slow way among the stumps and in the ruts of the roads of a new country. Now, the factories are scattered over our own land, which the iron bands of the steam and electric roads cover like the meshes of a great seine, and the time of freight transit is reckoned in hours, with a minimum of six hours from Pittsburg, twenty-four from Chicago, thirty-six from St. Louis, forty-eight from New York, and an increase in time from smaller places according to distance and location.

That was the time of wild cat money, and a catch-as-catch-can banking system, when William Bingham & Co.'s collector must have an accurate knowledge of the responsibility of different banks, and when he found it difficult, if more than fifty miles from Cleveland, to get money that would pass at home; when the best of Ohio and Indiana bank bills were rated at one-half to one and a half per cent. discount, and Illinois at thirty to fifty per cent. off. Now, not one man in fifty knows or cares what bank issued the bills he has in his pocket, or ever has one refused in payment for indebtedness.

In the early forties postage on a letter varied from ten to twenty-five cents, and the recipient had it to pay. Now, Uncle Sam carries a missive of twice the weight for two cents, and an organized, concentrated row is being made because the deficit caused by the too low rate on periodicals prevents one cent postage on letters.

Who still longs for "the good old times"?

Mrs. Nughwed (to Hardware dealer)—"That stove I bought of you is no good; it eats up more coal than a locomotive, and gives out about as much heat as a parlor lamp; and you said it had no superior and was the best stove out."

Hardware dealer (suavely)—"Madam, I told you it had no superior for burning hard and soft coal."—*Exchange.*

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The New York Credit Men.

At the October meeting, held in the rooms of the Arkwright Club on October 27th, the New York Credit Men's Association had a very successful session. There were over sixty-five members present. Mr. Kanzler, introduced by Mr. Messiter, president, read a report on the legislative and more especially on the workings of the investigating committee, and was listened to with the greatest attention. He was followed up by addresses by J. G. Cannon, the national president; F. R. Boocock, national secretary; H. Schieffelin Sayers, attorney for the committee; G. Waldo Smith, chairman of the Wholesale Grocers' Association; Vice-President Bates, of the Tradesmen's National Bank, and Messrs. Lundquist, Biggs, Hooper, Bannin and others.

This investigating committee is one that will make a vast difference in the counting rooms of the members of the Association, as the mode of procedure laid down will be most effective and promises to be carried out exceedingly stringent. The report was as follows:

Mr. Chairman and Members of the New York Credit Men's Association: In this State the bills introduced in the two Houses numbered 4533, of which 1300 were finally passed. Of these, 797 became laws; the remainder of the 1300 failed to receive the approval of the Governor. Notwithstanding the activity that now prevails in striving to supplement and amend old laws, and in devising and passing new ones, I have been from time to time debating with myself to solve a problem which has, beyond a doubt, also confronted you gentlemen, viz.:

"Why is it that the merchants do not protect their interests and their rights, and demand at the hands of the Legislature such laws to which they are justly entitled for the protection of their property?"

It is singular, nevertheless it remains a conspicuous fact, that statutes, and especially criminal laws, have been enacted in our State intended to punish fraudulent debtors, yet few benefits have flowed from their enforcement, and, in fact, few convictions can be pointed to.

It, therefore, devolves upon this and like Associations to insist upon having measures put upon the statute books that will call a halt on the unabated robberies that take place day after day, and also put within the reach of merchants satisfactory and sound laws which even "genius of counsel" cannot circumvent.

Your Association has been working diligently in this direction, and has within the past few weeks constituted a committee whose duty it will be to investigate and carefully scrutinize failures, to fasten upon some tangible evidence and proof in cases of criminally fraudulent failures. This evidence will be a support and a guidance to the district attorney for the people, in his effort to secure the indictment and prompt conviction of the perpretrators and of all guilty parties.

This committee, I assure you, will work sedulously and will shirk no duty; it will fathom the evidence and secure the most minute materials and relevant details, so that a case placed in its hands for examination will be pushed with such energy that the words Credit Men's Association will become a word of terror to the fraudulent debtor. Determined and unrelenting will be the action of this committee in the vigorous prosecution of every such fraudulent failure, and with the aid of complaining members success is assured.

I appeal to you gentlemen, individually, in the most emphatic sense to extend a helping hand to assist us in securing evidence that there be no escape of a dishonest debtor from the original meshes in any case brought before your committee for investigation.

Now, as to the legislative committee which has just begun its labor in the preparation of bills to cover the present loop-holes in the civil and criminal law. We are all familiar with the shrewd and unblushing methods that are adopted by a failing debtor, who, owing to the present statutes, successfully accomplished the evasion of payment of a just debt.

The work of this committee will be in a direction to give a creditor an immediate standing before the court and promptly check the gambling away of assets. The next Legislature will accordingly be urged to give us a remedy that will afford the creditor a prompt hearing before the forum, whether his claim is due or is not due, and whether it is or is not in judgment; so that in cases of assignment for the benefit of creditors (or other acts of insolvency), the creditor will be permitted immediately to assail any attempt at fraudulent dispositions of property or assets in utter disregard of other creditors; we propose thus to tie the hands of a debtor until the claim and rights of the merchant have been adjudicated.

It is not my purpose to burden you by outlining further the various matters which the legislative committee in the course of time will take up, but assurance can now be given that the time is not far off when the going out of business of the debtor in the "most convenient form" will be one of ancient history and be chronicled as a matter of the past.

Hugo Kanzler,
Chairman Legislative Committee and
Chairman Investigating Committee.

C. H. & E. S. Goldberg.

Among the many changes of location usually occurring at this season of the year, there are few which have so important a bearing upon the future usefulness and prosperity of their business, as that of C. H. & E. S. Goldberg, the leading jobbers in woodenware and the numerous specialties that have long been considered as analogous to that line of business, who have removed from the old stand at Nos. 326 to 330 Washington Street and Nos. 39 and 41 Jay Street, in which they commenced business in 1867, to the superbly located building so well adapted for their use, formerly occupied by the Thurber, Whyland Co., and their successors, the American Grocery Co., occupying the entire block on Reade Street, from Hudson Street to West Broadway.

In this six story building, with its basement and subbasement, the firm will possess about double the facilities they had in their old location, enabling them to ship goods even more promptly than ever before, and exhibit their large and varied assortment under the most advantageous circumstances.

The trade established by this enterprising and progressive house during the past thirty years extends to the leading dealers in Hardware and housefurnishing goods, groceries, and country stores, all over the United States. Their export department, which has grown greatly during the few years just past, has made trade connections in many foreign countries where our products are held in just esteem.

The business was originally established by George Goldberg, father of C. H. Goldberg, the present senior partner, the other member of the firm, E. S. Goldberg, being his cousin.

The line of goods handled by this firm covers almost everything in the line of housekeeping Hardware, woodenware, etc., covering cordage, baskets of all kinds, pails, tubs, refrigerators, floor and table oil cloths, etc. In brooms they handle, in their home and export trade, the entire products of several large factories. They are shrewd business men, with an honorable record of thirty years standing, and deserve the success to which this recent change of location cannot do otherwise than increase.

William Hogg, manufacturers' agent, No. 1345 Penn Avenue, Pittsburg:—Please find enclosed check for $1, for renewal. *Your paper is worth the whole dollar, and more.*

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Holiday Prize Competition for Window Display.

Immediately after November 1st the Bissell Carpet Sweeper Co. made to the trade a very important announcement, which will doubtless be of interest to all dealers who pride themselves upon their attractive window displays for the Christmas season. Any dealer who is desirous of obtaining any one of these cash prizes will have an opportunity of accepting the offer, which is announced as follows:

"To dress a window attractively is the constant aim of every well conducted business. The Bissell Carpet Sweeper being one of the best known and best advertised household articles on the market, will, if properly displayed in your window during the holiday season, not only attract a great many people to your store, but also largely increase your sales on carpet sweepers. To stimulate an interest among our customers to make a better display of our goods, something that cannot fail to result to our mutual benefit, we have decided to offer prizes for the best window display of Bissell's Cyco Bearing Carpet Sweepers made during the holiday season of 1897. Awards to be made from photographs of the displays, same to be furnished by the dealers and sent to us not later than January 5, 1898. First prize, $40 cash; second prize, $30 cash; third prize, $25 cash; fourth prize, $20 cash; fifth prize, $15 cash; sixth prize, $10 cash; seventh prize, $5 cash; eighth prize, $5 cash.

"We will furnish gratis, if requested, on conditions named in accompanying letter, the necessary easels, display cards, etc., to aid you in making a fine window display; hence, we trust this proposition will appeal to you in the right way, and that you will see wherein you can be benefited by the effort in a general way outside of standing a good chance of securing a liberal cash prize. Prizes will be awarded by a competent committeee of three professional window drapers, and awards made as soon as possible after January 1, 1898. Illustrations of the successful displays wil be sent to all who enter the competition.

"CONDITIONS OF THE DISPLAY.

"First. Bissell's Cyco Bearing Carpet Sweepers *only* can be used in the display, it being permissable, however, to use such other accessories as may be required to produce the finest effect.

"Second. Display must be made between November 15 and January 1, '98, and remain in your window at least one week.

"Third. Photograph of display must be mailed to us so as to reach us not later than January 5, 1898.

Grand Rapids, Mich. "BISSELL CARPET SWEEPER CO."

Holmes & Edwards Silver Co.'s New Catalogue.

We have received from the Holmes & Edwards Silver Co., Bridgeport, Conn., their new catalogue No. 21, which they have ready for distribution to the trade, and which forms one of the handsomest catalogues covering this line of goods we have seen this season. It is an artistically printed volume of 126 pages, 9½x12 inches in size, printed on fine coated paper, and every pattern of goods made by the Holmes & Edwards Silver Co. is fully illustrated in the main by beautiful wood cuts, which show off to the best advantage the desirable features which have become so popular in the output of this company. Among the goods illustrated of each pattern, are such articles as oyster and pickle forks; jelly, pie and cake knives; orange and berry spoons; cream, gravy, oyster and soup ladles; fish knives and forks, asparagus tongs, egg spoons and cheese scoops, sugar sifters; pie, tomato and pea servers; crumb knives and salad forks and spoons. All of these new lines of goods are illustrated, in addition to the usual assortment of plated flat ware, which makes up a part of the stock of every first-class Hardware store in the country.

Among the latest and handsomest designs placed on the market by this progressive company, may be mentioned "The Marina." The beauty of this pleasing design makes it admirably fitted to be added to their "Sterling Silver Inlaid" quality of goods, which indisputably possess all the advantages and characteristics of the solid silver article at an extremely moderate price by comparison.

Sterling silver inlaid spoons and forks are sterling silver at the points exposed to wear. They are more durable than light solid silver, and are guaranteed for a term of twenty-five years. These spoons and forks are made of the best nickel silver, places are cut out at the points exposed to wear, which are filled with solid silver, then they are plated and finished, using five times as much silver as is used in standard market plate. By this process it is impossible for the spoons and forks to show any wear whatever.

This desirable line of goods deserves to be better known to the trade, possessing as it does patented features which enable the manufacturers to "guarantee this quality in ordinary family use, to wear twenty-five years, and in hotels from ten to fifteen years." They also agree to receive as half payment in exchange for new, such goods as show wear during the next five years after the term of guarantee, if otherwise in good order. This catalogue should be requested by all dealers in high grade goods in this important line.

A Little Yellow, But——

A town may be besieged by yellow fever, and yet the courage and good spirits of its business men may be kept at the top notch. All that is needed is a lively sense of humor, plenty of industry, and the ability to enjoy life as it passes along. A letter comes to us from New Orleans, La., perforated until it looks like a sieve, and showing that it has gone through a very systematic process of disinfection. This epistle is from William Kline, whose Boston Twentieth Century Store, at Nos. 537 and 539 Canal Street, commonly referred to as "the busiest store on the busiest street," is still wide open and running for all that it is worth. Mr. Kline seems to be in excellent spirits, for he writes us: "I am in the Hardware jobbing business simply to make money. Please remember that. It is a little yellow in this section at present, but—— Merrily yours." A man imbued with this spirit is certain to get business, and the yellow fever will have to move very rapidly if it gets hold of him.

A. M. Scheffey & Co., No. 92 Reade Street, New York city, as Eastern sales agents of the Geneva Cycle Co., announce that they will have two grades of bicycles only for 1898, samples of which are now being shown by their travelers. Their best wheel, called the Geneva, will list at $60, and be made with two-inch drop in crank hanger, and will include the Seymour patent two piece crank with tubular sleeve. Their second grade, called the Ohio, will list at $40, and will also have two-inch drop with crank hanger. The agents announce that this machine will be fully up-to-date in every particular, and that they expect an immense sale on the same. They cover seventeen states for the Geneva Cycle Co., and will have ten travelers on the road. They are now sending to the trade a neat book of testimonials, showing the favor with which their wheels have been received by the public. An advance catalogue is in course of preparation.

It is reported that the American Tinplate Co., of Elwood, Ind., have begun to ship tinplates to Europe on regular orders. The first lot consisted of a carload of 500 boxes, destined for Italy. A similar order is said to have since been filled for England, and it is stated that other shipments to foreign buyers may be expected to follow.

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THE COLUMBIA CHAINLESS CYCLE.

In our issue of October 25th we made some extended reference to the new chainless cycle placed upon the market by the Pope Mfg. Co., Hartford, Conn., but were unable from want of space to illustrate the general features in full so as to make the description of its original points fully intelligible. As it is possible for the new mechanism in

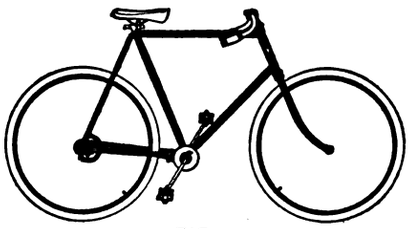


FIG. 1.

time to largely succeed older methods of cycle propulsion with advanced cyclists, we take pleasure in this issue of *Hardware*, in connection with the illustrations given herewith, to complete our notice. The improved general appearance of the Columbia Chainless as compared with the wheels requiring the old style sprocket and chain is noticeable in Fig. 1 and Fig. 2, which show the new models, presenting a much cleaner and trimmer appearance; and as there is a growing belief that the new gear will be found to im-

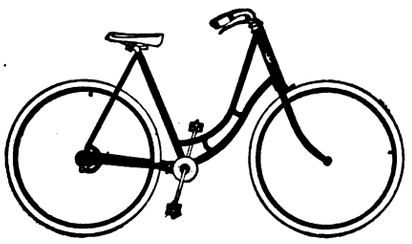


FIG. 2.

prove with age, working easier and more freely as use is made of it, it is confidently claimed by the manufacturers that "It will go faster and further with less effort. Is much easier to keep clean. Every motion being positive, there is no back lash. It has no links or teeth to catch things inadvertently. The driving mechanism is always in a lubricated condition. The motive parts are not affected by the weather, or from rain, mud or dust, being well protected. It makes possible less liability for repairs and

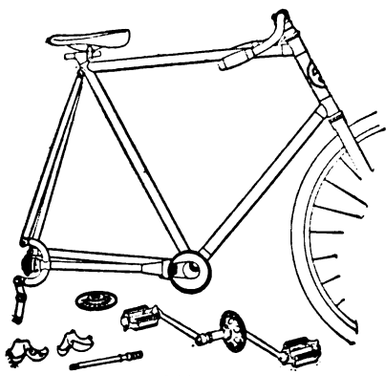


FIG. 3.

necessarily lessens the work and worry usually the lot of a cyclist, while it increases the safety and delight of cycling, substituting a higher degree of confidence for previous apprehension."

The driving mechanism of the cycle has for years been subjected to experiments without number, every effort being made by inventive skill to supplant the cumbrous sprocket and chain and substitute the direct-acting gear. At the beginning of 1897, more than one hundred patents had been issued on bevel gears, for use on bicycles in the United States and England, to say nothing of the large number of those granted in France and Germany. But notwithstanding the large amount of bevel gear construction, and the great expense and difficulty surrounding gear cutting, it seemed as though too many obstacles stood in the way of complete success, until aided by the practically unlimited resources of the Pope Mfg. Co., the ex-

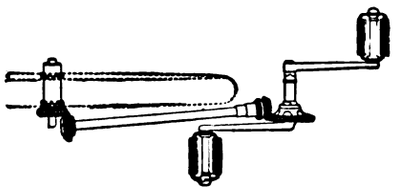


FIG. 4.

periments finally showed results which proved success was at last attained. The first chainless wheel which possessed points of acknowledged merit was the "League Chainless," made four years ago in Hartford. It was faulty in that perfect construction demanded by the riding public, and of the small number made but few were successfully marketed. But even the few sold found admirers who did seemingly impossible things on these advanced wheels, testifying strongly that a foundation for skilled improvement would be found based upon their controlling patents. Every one of these patents, when the League company ceased to exist, went into the hands of the Pope Mfg. Co., and they began experimenting, and more than a dozen distinct variations have been tested. All this, besides the work and waiting of getting bevel gears cut accurately, and of getting the costly equipment needed to produce them in quantities. Up to that time there was no proper machinery for cutting such gears in sufficient quantity.

"Each member of a bevel-gear is the frustum of a cone with teeth cut in its periphery. If cut in the face of an entire cone the teeth and the spaces between them would each come to a point at the apex of the cone. This tapering

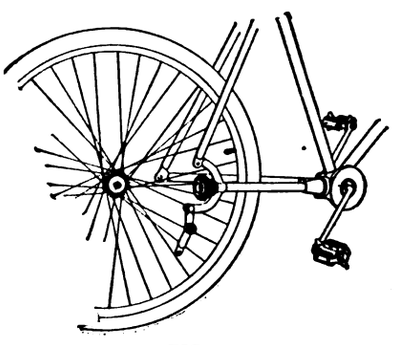


FIG. 5.

of the teeth and the spaces must be exactly uniform in whatever length of the cone is used for the gears, and all the teeth of both members of the gear must be precisely alike or there cannot be perfect work.

"But each tooth must have other peculiarities. Its outline must be considered with the greatest care. Its lateral diameter must be increased from the face toward the axis, and by a gradual and mathematically exact swell (an epicycloid curve), so that when the teeth are in operation they will come together and then separate with a rolling motion, with no slipping or grinding, with no friction. The

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point where this enlargement reaches its maximum is usually about half way down the depth of the tooth, and is called the "pitch circle." There must also be a slight clearance for the face of each tooth when fully in mesh."

The elements of the problem were easy to understand; the theory was simple enough, but putting it in practice was the difficult part. The necessities of bicycle use lifted gear-cutting from an art to a fine art, and the present "Columbia Chainless" is the result; a cycle which can be taken apart and put together by any person of ordinary intelligence in less than twenty minutes. The Columbia Chainless, with the exception of the driving mechanism, is the same Columbia cycle which is acknowledged "high grade."

It is the same wheel, including the famous Hartford single-tube tires, the same forks and handle-bar, the same seat-post and choice of saddle, the same perfect frame of nickel steel, the same pedals and cranks. The difference is entirely confined to the driving mechanism, to three sides of a parallelogram having the rear axle and the crank axle as its ends, and the shaft as one side, a method of construction illustrated in the small cuts shown in the course of this article.

The general manager of the Sportsmen's Exhibition and Bicycle Show is Frank W. Sanger, general manager of the Madison Square Garden. James A. H. Dressel is secretary and treasurer of the Sportsmen's Association, whose headquarters is at No. 377 Broadway. The press agent is Allen S. Williams, at Madison Square Garden. All the arrangements for the great combined show have been completed, and the success of the exhibition of 1898 is now fully assured. When the doors of the Garden are opened on January 13th the public will be treated to a unique display showing the most wonderful kaleidoscopic effects of color and light formed by the intermingling of electric lights with more sombre articles of the hunt and chase, thus presenting a picture entirely at variance with the usual exhibition of purely trade interests.

Hardware publishes in its latest issue a letter from an Ohioan, which suggests the explanation of Mr. McLean's distaste for Senatorial sour grapes. "Farmers," he says, "all have a big roll of money this fall and are feeling well. Prosperity is certainly in the air, whether McKinley brought it or not." The writer was last year a Populist and a pessimist, says the *Hardware*, and that fact gives emphasis to the concluding observation: "There is nothing that helps good times along so much as to talk about them, and for that reason I will not be a Populist or a pessimist any longer." No doubt this man fairly represents a large class of those who supported Bryan last year. That class did not croak and moan from any morbid or demagogical motive, but because they felt the pinch of hard times and thought free silver the road to prosperity.—*Inter-Ocean, Chicago.*

The Detroit Stamped Ware Co. has been formed in Detroit, Mich., with the following board of directors: Oliver Goldsmith, R. W. Gillett, L. H. Jones, W. A. Montgomery and C. D. Milne. The officers were also elected as follows: President, L. H. Jones; vice-president, O. Goldsmith; treasurer, W. A. Montgomery; secretary, C. D. Milne. The plant will be located at the corner of River and Clark Streets, and about fifty men will be given employment. The goods to be manufactured will be of a high grade, and will consist of tea kettles, coffee pots, saucepans, and articles of a kindred nature, all of which will be made of either brass or copper.

In buying a bicycle, be sure to get the best. Any of the advertisements will tell you which that is.—*Somerville Journal.*

Some Up-To-Date Announcements.

We Knife the Trade

Come and see how we do it.

Free Exhibition in our Window.

The Natural Refrigeration Season is about at hand.

. . . . But that's neither here nor there.

We are in for artifical refrigeration, which is the up-to-date thing.

Aren't we talking loud?
But our Prices talk louder.

Yours for Household Refrigerators.

WE SELL AT LOWEST MARKET PRICES.

No Trading Stamps.
We are not fools.

We don't believe our customers are.

No, we don't give trading stamps.

THE TRADING STAMP IS A FRAUD AND DELUSION. . .

Come to our store and we shall explain to you why.

It will be worth money or its equivalent to you to know why.

To indemnify you for the time expended in getting this information, we shall offer you the choice of an easel or work basket at the face value of whatever trading stamps you might have in your possession.

Don't be a Clam.

Be at least a mud turtle and have some snap to you. . .

That's what we tell our travelers.
That's what we tell our clerks.
That's what we practice ourselves.
We are a snappy concern.
We have snaps to sell.

. . Come and see us, if you are interested. .

Cleveland, Ohio. J. B. RINDFLEISCH.

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The Foreign Trade of Germany, 1896.

The commercial and industrial prosperity of Germany, which was so elaborately described in consular reports from this country for the year 1895, continued with steadily increasing volume throughout the following year. In respect to foreign commerce, there was a notable increase in both the quantity and values of imports and exports, in comparison with those of the three preceding years. The importation of American bicycles has continued on a scale far beyond that of any previous year, and the product of several leading makers is now retailed in all the more important cities. Their price is from 20 to 30 per cent. greater than is asked for home-made wheels, and they are used generally by the more wealthy, luxurious classes, who appreciate and can afford to pay for the best of everything that can be obtained. This has naturally roused the German bicycle manufacturers to an attitude of militant hostility against all imported bicycles, especially those of American origin, which are recognized as the most dangerous to their own trade. Their resentment has taken the form of fervid appeals to the government to impose greatly increased duties on all imported bicycles, with a differential and much higher rate against those of American manufacture. Several of the cycle-trade journals, organs of the manufacturing interest, refuse to accept advertisements of American bicycles or fixtures, and their editorial columns are eloquent with patriotic appeals to their countrymen to ride only German-made wheels.

Meanwhile, the German cycle manufacturers, of whom there are about fifty established firms, employing in all over 25,000 workmen, have gone on studying and copying many of the superior features of high-grade American bicycles, and have thus rapidly improved their standard of excellence, though it is conceded that the peculiar grace of model, easy running qualities, and rigidity of structure combined with extreme lightness that characterize the best grade of American wheels has not yet been attained in this country. Wooden wheel rims and handle bars, single-tube tires, and American lamps, cyclometers, and other materials and fixtures are now more extensively used in this country than ever before, as the German-made bicycle approaches more nearly to the best American type. There will continue to be here, at least for some years to come, a market for the highest grade of American-made bicycles, but their quality must be kept up to the highest attainable standard, and their price gradually reduced to meet upon equal terms the best product of the native manufacturers.

American consulates in this country receive constant inquiries from manufacturers, merchants, and exporters' associations asking what chance there may be here for the introduction of every conceivable product, from shoe laces to printing paper and fertilizers. Some of these inquiries are obviously made at random, as the articles to which they refer are more abundant and cheap here than anywhere else in the world, and are exported, through more or less advanced import duties, to the United States.

It should be clearly understood that Germany offers no open, ready market for the manufactured goods of any country. Her imports are principally food products and the raw materials which are consumed by her own rapidly growing industries. When Germany imports a manufactured product it is because that product is better in quality or cheaper in price, one or both, than can be produced at home.

There ought to be in Germany a far more extensive market than has yet been developed for American mechanics' tools, but this branch of trade presents some peculiar difficulties. The carpenters' and joiners' tools used in this country, notably saws, hammers, planes, and mortising and boring implements, are rude and poor compared with those made and used in the United States; but they have two important merits—they are very cheap and they are what the German mechanic has been accustomed to use since his boyhood. Hardware dealers will generally admit the superiority of American tools, locks, and other Hardware, but say that, by reason of their higher price, their sale is and must long remain limited in this country. There are indications, however, that the conservatism of German mechanics in this respect is slowly yielding to more progressive ideas, and with the increased use of improved machinery and machine tools, the demand for mechanics' tools of improved forms and quality has been noticeably stimulated.

But—and here is the marrow of the whole matter—whatever the article to be sold, it is useless for American exporters to expect, as so many of them obviously do, that German retailers and jobbers will order direct supplies of American manufactured goods from catalogues and circulars printed in English, in dollar prices and pounds avoirdupois, pay for them free on board at the factory or New York, and take all the chances and risks of importation in small quantities on their own account. Generally speaking, American goods, to be introduced in Germany, must be offered here as German and English goods are offered in the United States and other importing countries, either by established agents or by salesmen who can show and explain samples and make prices and conditions in currency, weights and measures that the purchaser can readily understand. If it be a machine, it should be sold by a man who can not only explain its working, but can set it up and put it into operation; if it be a tool or implement, it should be presented by a salesman who can show how it is to be used.

And in all cases, whatever the article offered or price demanded, absolute faith is requisite; fair, honest dealing—the honesty that scorns to send abroad anything inferior in quality to the sample from which it was sold. For the lack of this sort of integrity, no mere cheapness in price will atone. Whatever market there may be in Germany for American manufactured merchandise can be conquered only by the best that our country can produce and retained by a strict fulfillment of every contract and obligation.

Frank H. Mason,
Consul-General.

Frankfort, July 22, 1897.

Chicago Branch Store of New Jersey Car Spring & Rubber Co.

The New Jersey Car Spring & Rubber Co., Jersey City, N. J., are about to open a splendidly equipped store at Nos. 175 and 177 Lake Street, Chicago. This fine double store has been remodeled and fitted up in a most thorough manner. A complete stock will be carried, including the full line manufactured by this well-known concern, and will include all the different grades of hose, belting, packing, mats, matting, linen and cotton hose, etc. The stock of belting will be specially full and any size or ply will be found in stock, including the popular "Gladiator" quilt-stitched brand.

The New Jersey Car Spring & Rubber Co. are one of the pioneers in the trade, having been established since 1858. They are progressive, and have a fine up-to-date plant, with every new appliance in the way of machinery to make their goods quickly and well, and the opening of the Chicago store is looked for with interest by the trade. The store will be conducted under the management of Frederick G. Davis, who is well and widely known by buyers and users of mechanical rubber goods. Mr. Davis brings to his duties an extensive experience, and as the products of the New Jersey Car Spring & Rubber Co. are of known reputation and worth, the success of this new move of the company seems assured from the start.

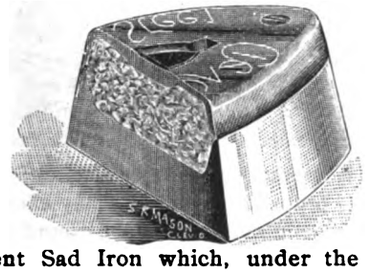
What would the farmer think of the management of a railroad with so bad a track that only half a load could be drawn over it?—*L. A. W. Bulletin.*

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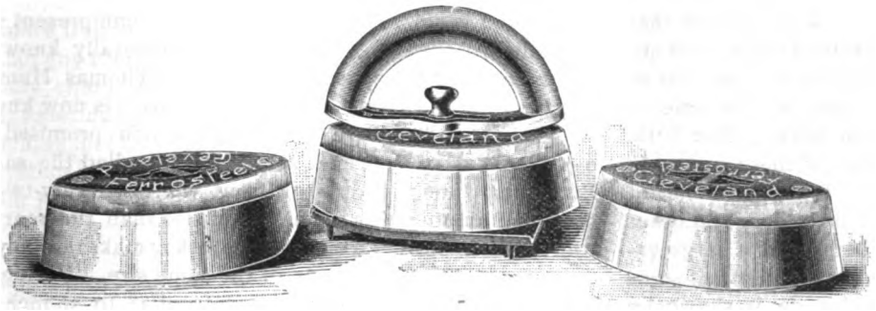
NEW GOODS AND SPECIALTIES.

The "Ferrosteel" Sad Iron.

The Ferrosteel Co., Cleveland, Ohio, who are favorably known as leading manufacturers of registers, for house-heating purposes, are placing upon the market a new and



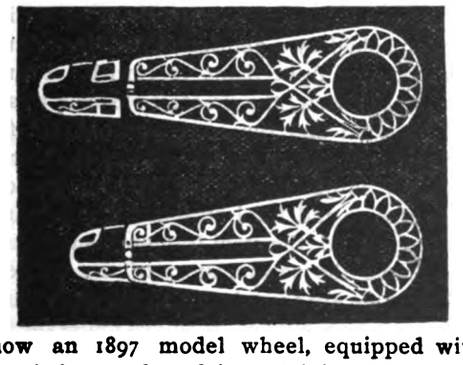
unique patent Sad Iron which, under the name of the "Ferrosteel," is destined to be heard from in the immediate future. It possesses enough original features to separate it from similar irons now before the trade, and which will doubtless secure for it a widely extended distribution. In the illustrations we present herewith, one of its most important improvements will be noticed, that of filling in the top of the iron with mineral wool, so as to largely overcome the reflection of heat from the top to the handle. The top of the iron is finished in antique bronze plate, so, also is the handle and stand. The top of the iron is perfectly smooth, thus enabling it to be kept clean more



easily. They are intended to be sold to the trade at $10 per dozen sets, and will no doubt be found an attractive addition to a stock of Hardware and house furnishing goods.

Aluminum Chain Guard or Sprocket Shield.

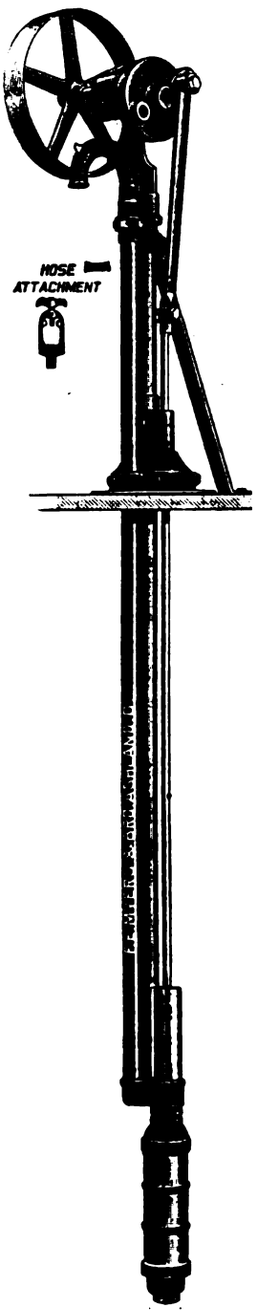
The Aluminum Sign & Novelty Co., Columbus, Ohio, who are well known as manufacturers of aluminum sign letters and aluminum castings of all kinds, are manufacturing an Aluminum Chain Guard or Sprocket Shield which is herewith illustrated. They make these in various sizes and styles, while any design desired is made to order promptly.



They show an 1897 model wheel, equipped with their aluminum chain guard, and it certainly makes a very attractive appearance. The illustrations carry their own explanation, showing two specimens of these guards, with a suggestion as to the method by which they are connected to the wheel. They will be pleased to send a circular descriptive of full line, with prices, etc., upon application, or to furnish estimates as suggested above.

Myers' New Dairy and Factory Pump.

F. E. Myers & Bro., Ashland, Ohio, are constantly making additions to their already extensive assortment of pumps and other specialties, the latest of which consists of a dairy pump, Fig. 730, an illustration of which we present herewith. It is especially constructed for dairy or factory uses, etc., where a light, self-contained back-geared power pump is required. It is constructed on the well-known form of their branch pipe pumps; is back geared, 2½ to 1 inch, and is adapted to operate in any well from 10 to 200 feet deep; it has 4, 5½ and 7-inch stroke. It is claimed by the manufacturers that the construction is the very best throughout, and fills every requirement for a force pump, with great power, adapted to



operate in almost any depth of well.

A Word to Cutlers.

I have often noticed, writes a correspondent, that when ladies select scissors they pay more attention to the points than to any other detail. Neither beauty of design, excellence of finish, nor goodness of material is regarded by them as of equal importance to well-shaped and very sharp points. Some makers are more careful in this respect than others. Speaking generally, German manufacturers have not overlooked its importance. The cheaper sorts of English scissors, though otherwise good, are in this particular not as carefully made as the foreign articles. It is a pity that the sale of articles of sterling quality should be hindered through inattention to what is, after all, a mere trifle. Yet such is the case.—*Ironmonger.*

A man who is perfectly sure of his position is not likely to get mad because some one differs with him. —*Exchange.*

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Recent Trade Publications.

The Cleveland Twist Drill Co., Cleveland, Ohio, Eastern office and salesroom No. 99 Reade Street, New York, have just issued a new catalogue covering a complete line of their goods, embracing the many important styles enumerated below, which have become staple goods in every stock of Hardware. The catalogue is of a very convenient size for shop reference, as it can be carried in a hip pocket or sent by mail in an envelope, and as the type is the same in size as is used in their larger catalogue, no disadvantage is observed in the smaller sized pamphlet used. Their large line covers straight shank, taper shank and square shank ratchet drills, bit stock drills for metal or wood; wood bits for brace, gimlet, bell hangers' and electricians' bits, Miller's patent self-feeding reamers, and Common Sense expansion reamers. The catalogue also illustrates two new lines which have attracted a vast deal of attention, and are very favorably regarded by all who have examined them. They are the drills having oil tubes, made with straight shanks for use in screw machines, and the drill and countersink combined; tools that are original, unique and labor-saving to a great degree. The company, for the convenience of their customers East, carry at the New York office their complete line in full stock, which enables them to fill all orders for regular goods at sight, greatly to the advantage of dealers handling their line. The company is ably represented here by C. I. Markham as manager.

The Aluminum Sign & Novelty Co., Columbus, Ohio, manufacturers of aluminum sign letters, street signs and house numbers, brass drum and sill signs, bar and trade checks, etc., have issued a very attractive illustrated catalogue and price list. This publication is so printed that the signs which they show stand out in bold relief, and are the best possible exponent of the character and quality of the goods they manufacture. Aluminum has become so widely known in the manufacture of letters, that little need be said of the character and value of these signs. In this catalogue, prices are given, with full description of the various lines manufactured. All kinds of door and other plates are exhibited with house numbers, and a large variety of trade checks. A number of bank and other signs are also exhibited, while on the final page is shown an office and storeroom in Columbus, where these signs predominate in large quantities. The company are prepared to furnish estimates on any design on application, or to fill orders for advertising novelties or aluminum castings. They call special attention to the fact that their aluminum chain guards and sprocket shields for bicycles are light, inexpensive, handsome and durable, and add that they will not break, bend or tarnish, and that with their use there is no danger or troublesome lacing.

The National Saw Co., with main office at Newark, N. J., are sending their friends a little blotter that is as "cute" and taking as anything we have seen for a long while. While it does not depict, we are certain, the frame of mind in which the National Saw Co. finds itself, it still conveys the idea that this great concern "Is Crying for your Orders."

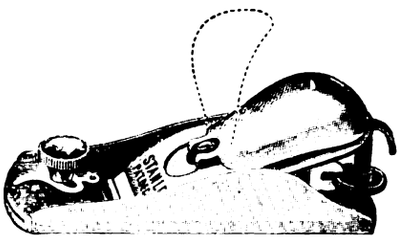
A. M. Scheffey & Co., dealers in bicycles, No. 92 Reade Street, New York, have issued an attractive little publication, headed "As Others See Us," which gives a large number of testimonials as to the character and quality of the output of the Geneva Cycle Co., for which A. M. Scheffey & Co. are agents.

The employer who expects to get a man's work for a boy's pay is usually disappointed.

Have plenty of "backbone," but keep it straight.—*Ex.*

Stanley's Knuckle-Joint Block Plane.

Among the large number of iron planes manufactured by the Stanley Rule & Level Co., New Britain, Conn., and No. 29 Chambers Street, New York, one of the most popular for general use as a block plane is the Knuckle-Joint Block Plane illustrated herewith. This plane has a new throat adjustment which is an important improvement The knuckle joint which forms the feature of the cap is so con-



structed that it operates as a lever also, and when the cap is placed in its proper position securely clamps the cutter in its seat. These planes are to be found in the leading Hardware stores of the country and find annually constantly increasing sales.

Evolution of the Wheel.

The old-fashioned high-wheel bicycle is never seen at the present day, except in burlesques and in trials of trick riding. It is hard to make the public remember the times when riders shot by on lofty, wabbling machines, and it is still more difficult to recall the derision which met the introduction of the safety. The low wheels were looked upon as babyish, and the first men to appear on them were scorned as weak and timid.

Only ten years have elapsed since the omnipresent safety made its advent. The type now generally known as the diamond frame was introduced by Thomas Humber, although not in exactly the same form as it is now known. As early as 1886 there were signs which promised the early advent of a wheel which is now called the safety. But at that time the Humber front wheel (twenty-two inches in diameter) was much less in size than the rear one (thirty-six inches). At that time other makes of bicycles came nearer having wheels of the same size. During the last decade wheels have varied from 18 to 36 inches in diameter in front and from 24 to 36 inches in the back. It was in 1886 that Humber's diamond frame made its appearance. Since that time it has become almost universal except in the cases where women riders refuse the more masculine styles of dress and are thus compelled to accept the drop frame. The excellence of the principles set forth by Mr. Humber is accepted by the whole cycling world, and that, of course, means almost the entire population of America and Europe.—*Chicago News.*

What is claimed to be the first successful attempt to put to practical use an electric plant driven by a windmill has been accomplished by a gentleman in Massachusetts, who operates a private light plant therewith. From an electricians' point of view, the greatest obstacle was the variability of the wind and the consequent erratic fluctuations of the electric pressures, which rendered their utilization impossible by subjecting the ordinary mechanical connections to excessive and fatal strains. The windmill proper is the ordinary kind, the steel frames or supports extending fifty feet above the second story of the stables. At the top of this frame are the wheel and fan which are operated by the wind. As the wheel revolves under the influence of the slightest breeze it operates a series of cog-wheels, which work upon a long vertical shaft running from the head of the machine to the basement or cellar of the stables, where it communicates with a second shaft leading directly to the dynamo of the plant.—*Exchange.*

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All About Sponges.

The English consul at Naples writes about the sponge industry of Southern Italy: The immense volume of the sponge trade and the manifold uses to which sponges are put by civilized mankind, from the cradle to the grave, together with the fact that of late years it has become an industry of Italy, whereas formerly the fishermen were nearly all Greeks, have suggested to me the following observations for publication. In the first place it is desirable to understand what a sponge really is, and for this purpose permission has been obtained from the editor of the popular handbook to the Naples Aquarium to extract a few of the leading facts which biologists have ascertained respecting this remarkable animal; for science has declared that a sponge is an animal, and the process by which this dictum was arrived at is particularly interesting. The distinction between animals and plants is sometimes so fine that it is no matter for wonder that mistakes were often made by the earlier school of naturalists, and it is only by applying the differential tests that the truth can be ascertained. Thus, a piece of sponge, when burnt, gives off a smell as of burning hair or horn, and exact analysis shows it to be allied to these substances. Again, though a living sponge is fixed and apparently motionless the holes in its surface are capable of opening and shutting, and from the largest of them, when open, a stream of water issues which is supplied by innumerable smaller holes, generally invisible except under the microscope.

Young sponges, varying in microscopic size to that of a pin's head swim freely about by means of little waving hairs upon their surface. when they reach an age when they prefer security to independence and monotony to danger. Finally, it has been proved that sponges live on solid food. While thus possessing all those characters that are more frequent among animals than plants, they never contain any traces of the cottony and woody substances especially characteristic of the vegetable kingdom. The water entering by the small pores passes through a system of branching and fine canals, and is collected again by a similar system into the outflowing current from the large holes. At the junction between the two systems of tubes are the most vital organs of the sponge, little swollen cavities of microscopic size, walled in with tiny living particles, each bearing a vibrating hair with which it lashes on the current, and a transparent filmy skirt with which it catches any food that may pass. All this labyrinth of canals and cavities is living soft flesh. To prevent it falling a prey to the first hungry animal that passes, it is set through and through with little flinty needles or thorns.

The Mediterranean sponge differs from and is superior to the sponge of Florida and the Bahamas, which form a large part of the British supply, and it has been in contemplation to export living sponges from here to those countries for propagation. No forecast can be made of the result of such an experiment, except that it would be a very costly one, as the living sponge must be taken up together with a portion of the rock upon which it grows, placed in a special tank on board a steamer so constructed that an equal temperature could be preserved throughout the voyage, and then the locality of the new colony would have to be carefully selected in order to keep up the distinction between the natives and the colonists.

In the ordinary course of sponge fishing, the fisherman, having once secured the sponge, proceeds to prepare it for the market. In this climate the animal rapidly decomposes if exposed to the air, and as soon as this process has set in the body must be rapidly beaten, or washed in running water till the fleshy substances are thoroughly removed. If decomposition has advanced too far, no process is known by which the skeleton can be purified and rendered fit for use.

Mutilation injures a sponge but little. Divided with a sharp razor even the smallest fragments retain their life, and under favorable conditions they will live and grow. So much is this the case that experiments in sponge-farming have been made, but the results have not been sufficiently sure to make the enterprise assume a practical form. Its advocates tell us that if a living sponge is cut into pieces with a sharp instrument, and the pieces fastened to canes immersed in clean sea-water, the fragments will grow to marketable size in five years, when of course they can be fished without expense or trouble. The great practical obstacle is in establishing ownership over a suitable spot, apart from the initial difficulty of finding such a spot. There is just that difference between cultivating oysters and sponges, that the f rmer can be grown in waters where ownership is obtainable, and where stealing them would bring an offender in reach of the law, whereas this is not the case with sponges.

Things Worthy of Imitation.

It would be worth while to imitate the elephant in his stately quietness.

It would be worth while to imitate the seal in his amiability.

It would be worth while to imitate the trained dog in his patience.

It would be worth while to imitate the bear in his affection.

It would be worth while to imitate the camel in his willingness to assume burdens.

It would be worth while to imitate the horse in his air of good breeding.

It would be worth while to imitate the tiger in his diplomacy.—*Exchange.*

WHEREVER MUDDY FOOTSTEPS

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing.
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

Enter door-ways, the best thing they can land on is rubber. It is water-proof, dirt-proof, germ-proof. Besides its sanitary strength it outlasts and out-looks any fibrous material. Made up into **perforated mats,** there are two more good points: We shape to fit any space, however irregular, and mould into each mat the owner's name and number in such style that no thief can remove it.

Winter is coming—and with it rain, mud, slush, snow. You can't get away from them out of doors, but you can in doors if you have good mats. **Perforated rubber mats are the best you can buy**—if made of first-class rubber. That's our kind. Our mats have been the standard for quality ever since we originated rubber floor coverings—years and years ago. You will find them in such buildings as the Waldorf, Delmonico's, Metropolitan Opera House, New York Life Building, etc. Always a pleasure to submit samples, designs and prices. After choice is made it takes about a week to complete the mats.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Indianapolis... 70 S. Illinois St
Philadelphia ..308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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Review of the Markets.

With a gradual lessening of the usual and customary orders which at this time of the year is to be anticipated, the season is beginning to wane. The trade of the past month while failing to reach in some sections of the country the amount anticipated, was still greatly in advance of a year ago, and more orders than usual for November are anticipated during this month and up to the holidays, the enquiries from the West and South indicating a greater demand for staple goods than was the feature of the October trade. Changes in prices are not occurring with any alarming frequency, and it looks as though the present low prices would be current quotations without material change until the season closes.

Wire Nails: The mills are gradually catching up on their orders, and the market may be noted as being a shade easier, in order to induce transactions that will keep the wheels of this industry moving in harmony with business generally. At present prices, wire rods are held at too high a figure to make wire nails very profitable at the manufacturers' present quotations. The market is not held at the firmness recently manifested, a concession being made by the quotation of $1.45 for carload lots at mill, an advance of 5 or 10 cents a keg being made on lesser quantities. New York quotations are: $1.60 for carload lots on dock, smaller lots from store being held at $1.70.

Cut Nails: Easier conditions in the wire nail market have made it inadvisable to hold cut nails at the advanced prices recently named, the demand not being a very heavy one, but at the lower prices quoted fairly sustained. The quotations are $1.15@$1.18 for carload lots at mill, New York prices being represented by carload lots on dock, $1.33; smaller lots from store, $1.43.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of November 4, quote prices as follows: In lots of less than 5 barrels, 38 cents per gallon; in lots of 5 barrels or more, 37 cents per gallon. The five-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon.

THE PHILADELPHIA TRADE.

Business may be classed to-day as fair, with somewhat of a tendency towards improvement, as indicated by the large number of mail orders, and rather more generous quantities ordered in this way.

It is universally conceded that prices on Hardware are entirely too low, and that a general advance all along the line would probably be welcomed by the manufacturers, jobbers and dealers alike, and it has been often said there is business enough doing if values were only what they were twenty years ago, but as Hardware has decreased from thirty to forty per cent. in that time—perhaps more—it needs a correspondingly strong effort to increase sales, when the amount in dollars and cents is thus constantly curtailed by reductions in price.

This is felt by all classes of dealers, and as Hardware is now in many cases at—or below—the cost of manufacture, it only seems reasonable that better times are pretty sure to bring reaction and higher values. Perhaps it is a realization of this fact which explains the larger quantities now being ordered by the dealers.

Prices have shown but few changes—there seems to be no room for further declines—and manufacturers are conservative in making advances.

Cut nails appear to have weakened slightly, but this might be expected at this time of the year, with the winter in sight.

Collections are certainly better, showing that the country trade are more amply supplied with money, and the farming community especially are paying up their old bills with alacrity that is most gratifying, and which is sure to have its effect on trade ere long.

Manufacturers are doing increasing business, and it is a welcome sight to see the mills once more lighted up at night. The writer, like all good Hardwaremen, usually keeps early hours, but occasionally makes an exception, and has been glad to see the brilliantly lighted windows of several factories, showing that increased wages are being paid to operatives, and this will inevitably find its way into the trade later. BIDDLE HARDWARE CO.

THE BUFFALO TRADE.

You will have to excuse us from sending you any letter for your issue of November 10th. Anxiety for the welfare of the National Hardware Association, and looking after you and your friends, is about as much as we feel we are able to do for the present. WEED & CO.

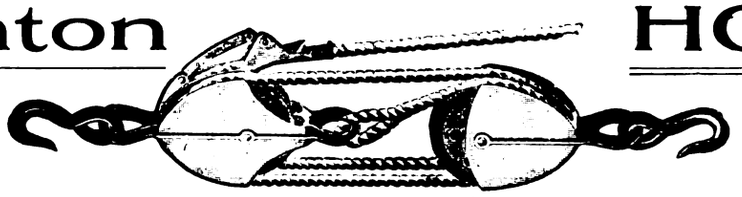
THE PITTSBURG TRADE.

Welcome rains have gladdened the heart of the agriculturists during the past few days, making possible the springing of grass and wheat so much needed. We must all come back to Mother Earth and her products for prosperity, so that merchant and manufacturer will unite with the farmer in rejoicing over the welcome moisture. The fall weather has been delightful for out-door sports and exercise, but absence of cold and mud cuts off demand for seasonable goods, such as gas stoves and the like. Trade is good in guns and ammunition, as squirrels and birds are plentiful. A very good volume of general trade is moving, especially in the coke and manufacturing districts, where work is plenty. Collections are about up to the average, although some sections still seem to have hard work to pay up. This is especially the case in the coal mining towns, where the long strike left the men so much in debt that it will take months for them to get paid up. Conse-



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The Canton HOIST



Can be used perpendicularly, horizontally, and at any angle in factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics.

MANUFACTURED BY THE NEY MFG. CO, CANTON, OHIO.

quently the local merchants cannot pay as promptly as usual.

LOGAN-GREGG HARDWARE CO.

THE ST. PAUL TRADE.

The situation in our section is not changed from last report. Our jobbers are doing a good business, and expect it to last up to Christmas. We have no such demand for goods as there is said to be southwest of us, but ours is fair. With more business, prices are firmer. We are still selling nails and barbed wire at cost, by reason of the competition of a certain manufacturer. This causes trouble for cities whose territory laps on ours, but as this condition has existed for a year, we are getting somewhat used to it.

Our houses will all be represented at Buffalo during the National Convention. We hope to derive some benefit from contact with our competitors, and are willing to give our experiences as well as hear the experiences of those in the same line of business.

We hope to meet many of our contemporaries in Buffalo.

C. W. HACKETT HARDWARE CO.

THE OMAHA TRADE.

Trade, for the past two weeks, has not evidenced the same activity that has characterized it during the early part of October. The weather has been a little unseasonable, which, to some extent, has interfered with the movement of season goods, and the easing off in the price of grain has made the farmers unwilling to sell, and even those who are anxious to sell are having trouble on account of the scarcity of cars. These circumstances combined have slackened the movement a little. Nevertheless, the volume of business in all lines easily exceeds the corresponding period for a year ago by from 25 to 40 per cent., and collections are all that could be desired. Nails and barbed wire, in particular, have been moving freely, and with the advent of seasonable weather a good movement of season goods may be anticipated, which will make the volume of business even more satisfactory than at present.

RECTOR & WILHELMY CO.

THE DAVENPORT TRADE.

Election passed off quietly. For once neither the campaign nor election day interfered with trade, and we do not think the result will affect business. Trade continues good, especially in seasonable goods and assorted Hardware. It represents an increase over last year at this time. While the drouth continues, there never could have been more delightful weather for either pleasure or outside work, than we have enjoyed this season. We feel that our climate in autumn cannot be surpassed anywhere.

The dropping of the price of grain is to some extent holding the crop from market, but so far has not seriously interfered with collections, which continue satisfactory. Prices are firm and where changes have occurred they have advanced. It is to be hoped that the meeting of the National Hardware Association at Buffalo will be well attended, and that the result of its deliberations will be an advantage to the members of the association.

SICKELS, PRESTON & NUTTING CO.

From Houghton, Mich., it is announced that the Six-Mile Copper Mine, adjacent to that city, has been sold to a syndicate of New York capitalists, whose names are not made public, for $5,000,000. Capt. W. A. Dunn began work at the mine three months ago, and the sale attests his success. The property has three shafts, none of which is very deep. The richness of the shafts in native copper is such that reliable persons reporting upon the showing, after personal inspection, find it difficult to secure full credence. Capt. Dunn will remain in charge of the work, and preparations are now being pushed for vigorous development. It probably will cost half a million more for development before the mine will begin earning even operating expenses. Over 1000 men are now at work, and others will be added as rapidly as possible. It is hoped the mine can be made a producer early next spring.

Good streets make good cities. Good roads make good farms.—*Exchange.*

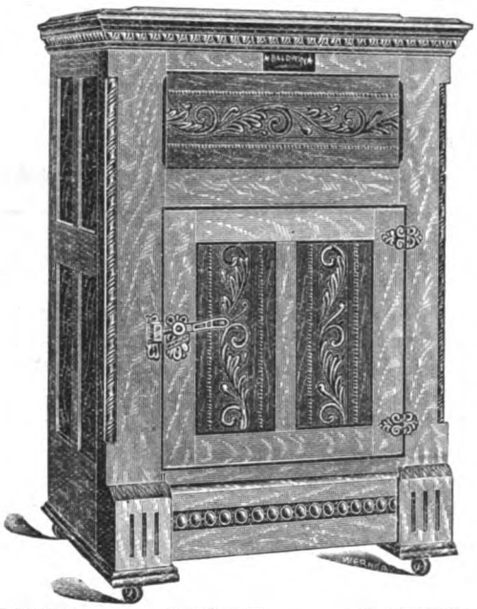
Mother's out upon her "bike,"
  Enjoyin' of the fun.
Sister and her beau have gone
  To take a little run.
The chambermaid and cook are both
  A-riding of their wheels,
And daddy's in the kitchen
  A-cookin' of the meals.

—*L. A. W. Bulletin.*

STUBS' TOOLS.
FRENCH FILES & RASPS.
S. J. ADDIS' LONDON CARVING TOOLS.
HAMMACHER, SCHLEMMER & CO.
DIRECT IMPORTERS
209 BOWERY NEW YORK.

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BALDWIN DRY AIR
REFRIGERATORS.



1898 1898

NEW. NEAT. NATTY.
—125 Varieties.—
POPULAR SELLERS. POPULAR PRICES.
Send for Catalogue G.
BALDWIN REFRIGERATOR Co.,
—BURLINGTON, VERMONT.

Exports to Russia.

Since the Russian Government decided to abolish the duties on agricultural machinery and implements, considerable effort, it is said, is being made by several manufacturers in that line to materially increase their Russian business, even though it may be done through foreign representation. This move on the part of the Russian Government cannot be but of the greatest interest to the American manufacturers. Parties in the trade claim that the American manufacturers are bound to increase their Russian business if the undertaking is properly handled. Although a large quantity of agricultural machinery and implements is manufactured in the country, the imports are yearly increasing. The total imports of agricultural machines and implements into Russia amounted in 1892 to $2,010,123; 1893, $2,495,045; 1894, $3,635,800; 1895, $3,850,120; 1896, $3,710,000. To this the United States contributed in 1892 the amount of $107,268; 1893, $284,665; 1894, $271,190; 1895, $699,353, and 1896, $457,622. As it will be seen the American share in this trade is insignificant to anyone who realizes the possibilities of extension. Manufacturers, however, should take more care in securing proper foreign patents, so that the imitation of machines would be impossible. This inattention on the subject of foreign patents is costing American makers, it is said, millions of dollars, as not only do the foreign manufacturers pirate upon American ideas in goods not protected by patents abroad, but they infringe upon protected goods to an extent which calls for some united action from American manufacturers.—*N. Y. Journal of Commerce.*

At last there is something new under the sun. Battery Table Lamps at prices from $1.50 up are the latest, and the Ohio Electric Works, Cleveland, Ohio, the pioneer manufacturers of portable lights with primary batteries, are the producers. This company first introduced the successful necktie lights, then the bicycle electric light with primary battery, which they have brought up to a high standard of perfection, and their carriage lights with dry batteries, which have become so popular. The popular-priced battery table lights will have a large sale, and dealers can obtain exclusive sale by applying early for agencies. The new catalogue for 1898 is now ready for distribution, and a copy will be mailed to any one who will mention this paper. Address Ohio Electric Works, Cleveland, Ohio.

"Is the editor in?" asked a caller in a Western newspaper office.

"Yep," replied the boy with a grin; "he's in $7 old Judkins paid him this mornin' for a column ad, an' he's over at the saloon playin' poker. As soon's he's out the $7 he'll be in."

STEEL BALLS.

TRADE THE NEW PROCESS STEEL BALLS MARK

WE ARE THE LARGEST PRODUCERS OF STEEL BALLS IN EXISTENCE.

Automatic Machines for turning and finishing Cones, Cups, Screws, Nuts Nipples, etc. Our machines are used extensively by nearly every prominent cycle manufacturer in this country and Europe.

STEEL STAMPINGS.

We have in stock and will make to order Seamless Heads, Hangers and Lugs, Cups, Cones, Crowns, Fork Ends, Brace Tips, etc., etc., etc.

THE CLEVELAND MACHINE SCREW CO., Cleveland, Ohio.
FOREIGN OFFICE, 25 Albert St., Birmingham, England.

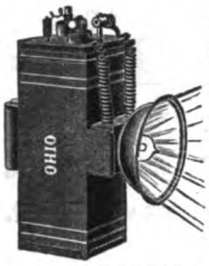
CLARK & COWLES.
RIVETS PLAINVILLE, CONN. SPRINGS
STAMPING AND FORMING

GREAT VALUE AS AN ADVERTISING MEDIUM.

Buck Bros, Milbury, Mass. [Tools]: We appreciate the great value of HARDWARE as an advertising medium.

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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights	$4.0
Necktie Elec. Lights	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells....	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . .
Catalogues free.

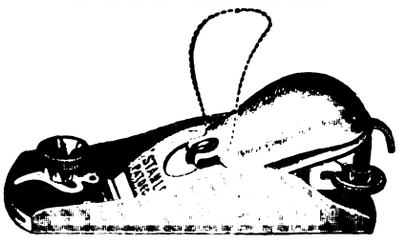
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

Stanley's Knuckle-Joint Block Plane.
WITH IMPROVED THROAT ADJUSTMENT.



The knuckle-joint in the cap makes it a lever too; and placing the cap in position, will also clamp the cutter securely in its seat.

No. 18. Nickel Trimmings, 6 in. Length, 1¾ in. Cutter... $1 75

Accommodated His Clerk.

A newly engaged clerk in the employ of the Standard Oil Co. was sent to work in a small room that contained a health lift. Every morning at about 10 o'clock, when this clerk was particularly busy with figures, a small, black-mustached man, quite diffident in manner, entered, said "good morning," walked on tiptoe to the corner, and exercised for a quarter of an hour. It became a bore to the clerk, who at last one day remarked with considerable heat to the stranger:

"How do you expect me to do my work properly while you are fooling with that blasted machine? I'm getting tired of it. Why don't you put it where it won't worry a person to death?"

"I am very sorry it annoys you," said the stranger, flushing; "I will have it removed at once."

A porter took it away within an hour. A few days later the clerk was sent for by Mr. Flagler, whom he found in earnest conversation with the small, black-mustached man. The latter smiled at seeing him, gave Flagler some instructions, and left the room.

"Will you tell me who that gentleman is?" the young man asked, a light beginning to break upon him.

"That was Mr. Rockefeller," was the reply.—*Boston Journal.*

Old and New Steel Rails.

Steel rails fresh from the mills can often stand a considerable shock before breaking, while upon being taken up after some length of time in service, and subjected to the same tests, they break easily. A special feature is the brittleness of the rail when laid head down, which causes tension in the head when struck by the drop hammer. This brittleness is, however, found only in the head, for, on removing about an eighth of an inch by planing, old rails prove to be as strong as new ones. A microscopic examination of the heads of old rails has revealed the fact that the surface is frequently covered with microscopic cracks which extend inwards no further than one-hundredth of an inch on the average, and it is to the presence of these fissures that the brittleness is in a large measure due.

An English contemporary states that the corporation of Blackpool has resolved to abandon the underground electric conduit system in favor of the overhead trolley. This was one of the first electric railroads in the United Kingdom. The reason for the change is the high cost of maintenance of the conduit equipment.

Give your clerks their due as well as your customers their weight.—*Hardware and Metal Reporter.*

Side Line Wanted.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore. Md.

Give You Your Money's Worth.

Coldwell Lawn Mower Co., Newburgh, N. Y. [*Lawn Mowers*]: We think HARDWARE is enterprising, pushing, up-to-date, so to speak, and has a certain amount of get-up-and-get spirit about it, combined with a certain flavor of "I give you your money's worth when you advertise with us," that we like it—not for fun or sentiment, but for real business, and so long as you continue thusly you can count on our continuance.

IN HANDLING HANDLES

WHY NOT BUY THEM WHERE YOU GET HIGH GRADE AND LOW PRICES COMBINED?

WE SELL THEM EVERYWHERE.

ALWAYS PLEASED TO SUBMIT SAMPLES AND PRICES.

GEO. S. PARKES & CO.
NASHVILLE, TENN.

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

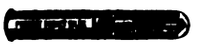
SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

OILERS

25c. 10c.



Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—



The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

The Iron Trade Increasing.

The production and consumption of iron products for the last forty eight years are not only remarkable, but very interesting. In 1850 we produced and consumed a little over half a million tons, or sixty pounds per capita per annum. In 1860, the production and consumption had increased to 800,000 tons, or 62 pounds per capita; in 1870, to 1,800,000 tons, or 102 pounds per capita; in 1880, to 3,800,000 tons, or 240 pounds per capita, and in 1890, to 9,200,000 tons, or 334 pounds per capita.

If in 1890, with a population of 62,000,000, we consumed 334 pounds of iron per capita, how much will we consume in 1900 with a population of 75,000,000? If the same ratio of increase in consumption is maintained it will require over 18,000,000 tons to supply our wants, and why not?

Between 1870 and 1880 the price of pig iron went from $60 per ton to $13 50 at Southern furnace yards. This was during the depression following the panic caused by the failure of Jay Cooke & Co., in 1873, which continued until 1879. Notwithstanding these seven years of depression, consumption increased more than 100 per cent. per capita.

Between 1880 and 1890 we again had a long night of depression and restricted consumption following the Seney failure, in 1883, and lasting until 1888, when the price of pig iron went from $40 per ton at the furnace to $11 per ton, and still consumption increased during this decade nearly 100 per cent. From 1890 to the present time the price has gone down from $15 per ton to less than $6 per ton, caused by the great depression following the Baring failure.

The fact that the whole country has starved itself for iron since 1893 will only make the appetite the sharper, the consumptive capacity the greater, since confidence has been restored and normal conditions again obtain.

Another reason why our consumption will not only be maintained, but relatively increased, is the fact that in 1890, when we consumed 334 pounds per capita, we were paying $15 per ton for it, and not only consumed all we made, but we imported over 700,000 tons that year. The price to-day is $7.50 per ton at the furnace, and, instead of importing, we are exporting large quantities. and, if present prices continue in England and Germany, this country will export more than a million tons next year.

As the past is our only criterion for judging the future. does it not look as if 1898 and 1899 will be remarkable and eventful years in the history of the iron trade?

The balance of this year will take care of itself. Furnaces are generally sold up to the end of the year. Manufacturers have placed their orders for raw material and have well filled order books for their product. To-day we are producing at the rate of more than 10,000,000 tons, and consuming at the rate of more than 11,000,000 tons. Next year and the year after is the time when the great production and consumption must and will come. In order to do this, and keep up the pace that has been set for us by the last two decades, we will have to produce and consume nearly 15,000,000 tons in 1898 and nearly 20,000,000 tons in 1899.

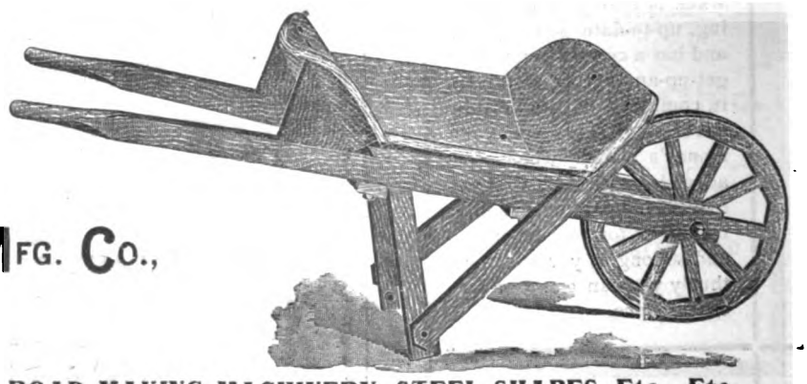
A. M. SHOOK.

—*New York Times.*

Peter D. Wanner, of Reading, Pa., renominated for president of the State Foundrymen's Association, in speaking of the condition of the iron trade, made reference to the contemplated improvement in the gas and water works of a number of cities, notably Philadelphia, where, he predicted, the people will authorize the twelve-million dollar loan, and where the improvements will require 150,000 tons of iron for new gas and water pipes, will create an additional boom in the iron trade that will solve the problem of prices for ten or fifteen years to come. If the larger firms were not so avaricious, he declared, prices now would be better than they are, although the recent advances have been encouraging. A movement, it is reported, is on foot to form a defensive alliance of Eastern foundrymen, to act in conjunction with a Western organization, with the purpose of counteracting, in a measure, unreasonable demands of labor organizations.

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.

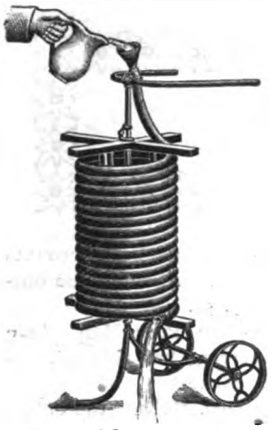


THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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IT EXPLAINS
Why it is
Superior to all other
Hose Reels. This
The Hartzell
Self-Draining Hose Reel
will carry more hose,
it will **drain, preserve** and
greatly increase
the **durability** of **Hose.**

Patented January 5, 1897. Others applied for.

It is a beautiful ornament for a lawn. It is convenient, light, strong. It will please your customers as it saves money. For prices and sample Reels, address

The Hartzell Novelty Works, (Sole owners and man'f'rs) ALLIANCE, OHIO.

THE **"Norton"**



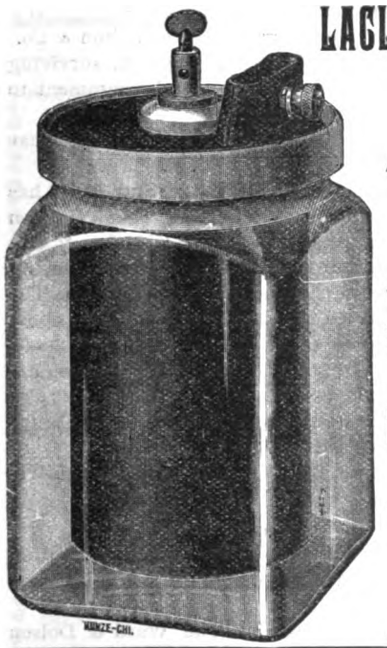
Address 505 SEARS BUILDING, BOSTON, MASS.

An Air Check.

A Good Seller.

DOOR-CHECK and Spring.

WRITE FOR PRICES.



LACLEDE & HERCULES BATTERIES

For Door Bells, Telephones, and Annunciators.

WARRANTED stronger and longer lived than any other Sal-Amoniac Battery made. . . . . .

MADE ONLY BY

PERU ELECTRIC MFG. CO.,
PERU, IND

ALSO MAKERS OF
ELECTRICAL PORCELAIN
OF ALL KINDS

Send for Catalogue.

"USEFUL AS AN ADVERTISING MEDIUM."

Smith & Egge Mfg. Co., Bridgeport, Conn. [*Traps, Locks, Chains, Pulleys, etc.*]: We have found your paper very useful as an advertising medium.

"INTERESTING AND INSTRUCTIVE."

Strong, Bush & Handwerk, Joliet, Ill.: Your paper is very interesting and instructive.

MILLER OIL HEATERS

See our Catalogue No. 57.

It shows a large line of handsome designs, latest improvements and high quality.

PRICES RIGHT.

ALSO

THE MILLER LAMPS
IN CATALOGUE No 58.

EDWARD MILLER & CO.
Factories and General Office,
MERIDEN, CONN.
STORES:
63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.



No 351.

SHOOT BLUE ROCKS.

For Sale by all Jobbers.

Foreign Trade Supplied Direct or Through Exporters.

The Cleveland Target Co.,
Cleveland, Ohio

C. H. & E. S. GOLDBERG,
WHOLESALE DEALERS IN
GENERAL WOODENWARE.



Possessing ample facilities, in their new location covering a whole block, they are enabled to carry the largest stock of goods in this line known to the trade.

Illustrated Catalogue mailed on application.

WEST BROADWAY, READE & HUDSON STS., NEW YORK.

"IMPROVES AS IT GROWS OLDER."

Geo. P. Crans, Brooklyn, N. Y.: HARDWARE improves in quality as it grows older. I am well pleased with it.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Champaign, Ill.—F. K. Robeson & Bro. have opened a tinware business.

Covington, Tenn.—The Covington Hardware Co. has been incorporated by Henry D. Rose, Wm. C. Boyce, Herbert Hamilton, Wm. T. Hamilton and Wm. Hamilton. Capital stock, $4500.

Ellsworth, Ill.—B. F. Staugen, agricultural implements.

Freeport, Me.—Wm. A. Davis, agricultural implements, on Main Street.

Girard, Ind.—A. Schoen.

Grand Rapids, Mich.—T. W. Dunn, Hardware specialty and factory supply store.

Luckey, Ohio.—W. Holden, agricultural implements.

Maryville, Mo.—H. S. Joy, who purchased the Davey & Armstrong stock of Hardware, moved his family down from Elmo recently and is now a full-fledged citizen of Maryville.

Pine Bluff, Ark.—The McGaughy Hardware Co. has been incorporated. The capital stock of the company is $10.000, of which $5000 has been subscribed. The corporators are R. D. McGaughy, H. C. McGaughy and C. H. Triplett, all of this city.

Port Huron, Mich.—J. Watson, Hardware, has opened new store on Elmwood Street.

Changes and Removals.

Alvin, Tex.—Pridmore & Kimmins, dealers in Hardware and furniture, have purchased the opera house block of Charles Batterson, of Galveston, and will move their business to same.

Ashmore, Ill.—Brown & Kimball, Eva Kimball's interest has been purchased by J. W. Brown.

Asheville, N. C.—J. E. Dickerson Co., business purchased by W. S. Robertson, president of the Watkins-Cottrell Co., of Richmond, Va.

Belvidere, Ill.—The Disotell & Wilcox Hardware stock which was sold at sheriff's sale, was bid in by W. W. Ray, for a consideration of $1100. The stock is worth considerably more than the successful bidder paid for it.

Blythedale, Mo.—E. O. Smith, Hardware, reported to have sold out.

Brewton, Ala.—Luttrell Hardware Co. contemplate taking up bicycles.

Calkinville, Mich.—Carmen & Reeves, stock purchased by L. Wing.

Carthage, S. D.—John Dixon, Hardware merchant, has sold his stock and interests to Henry Morris, who will continue the business on an enlarged scale.

Champaign, Ill.—H. Trevett, agricultural implements, sold out to F. M. & O. W. Lamb, who will conduct it in the future under the name of F. M. Lamb & Co.

Clay City, Ind.—George Motz, stock purchased by J. E. Bryan.

Delta, Ohio.—Grisman Bros., R. L. Geizer has entered partnership.

Des Moines, Iowa.—John F. Kauffman gave a bill of sale for $4800 on his stock of Hardware, No. 425 East Walnut Street, to E. L. and Nancy J. Ebersole.

Durand, Ill.—P. W. Fenton has resumed his agricultural implement business.

Durand, Mich.—The De Camp Hardware Co., purchased by F. B. Sabin and W. K. Brewster, who will run it under the name of Sabin & Brewster.

Evart, Mich.—The Evart Hardware Co. has added a stove department.

Iron Mountain, Mich.—The well-known Hardware firm of Hancock & Sundstrom, doing business at the corner of Stephenson Avenue and Ludington Street, has been dissolved, Robert Hancock retiring from the firm. Negotiations leading toward this end have been going on for several days, but the deal was not closed until recently. Mr. Sundstrom has purchased the interest of his partner, Mr. Hancock, who will be succeeded by Will Sundstrom, Jr.

Ivesdale, Ill.—A. Konow, stock purchased by Mr. Cox.

Lafayette, Ill.—Charles White, Y. Fell has purchased a half interest.

Lyle, Minn.—John Reding, succeeded by W. A. Eggert.

Manistee, Mich.—A. B. Leonard & Son, Hardware, etc., reported to have been succeeded by C. M. Pepperman Co., Ltd.

Marshall, Mich.—Rickett & French have been dissolved. The business will be continued by the Messrs. French.

Mendon, Mich.—Zach. Beard will erect a large building for his agricultural implement and carriage business, next spring.

Melrose, Wis.—J. S. Miller, succeeded by the Wyman Hardware Co.

Napoleon, Ohio.—Utz & Militz, Mr. Militz has sold his interest, and the firm will hereafter be Utz & English.

Ney, Ohio.—Ed. Bergman, new store being built for him by Charles and William Lantz.

Parker, S. D.—J. L. Weaver, sold to Harper, Jones & Co.

Quakertown, Pa.—W. H. Davis, who has for a number of years been in the Hardware business on West Broad Street, has sold his stock to a Mr. Weber, of Tamaqua, Pa. They are taking stock account at present and Mr. Davis will give possession shortly.

Red Oaks, Ill.—Meyers Bros., store purchased by E. Man.

Reynoldsville, Pa.—J. C. King & Co., Hardware, etc., closing out stock.

Saratoga Springs, N. Y.—The stock and fixtures of the Van Dorn Hardware store were purchased by Frank M. Cozzens and William C. Van Dorn, who will hereafter conduct the business under the firm name of Cozzens & Van Dorn.

Sioux City, Iowa.—The stock of the Burns & Hunt Hardware Co. was sold at mortgagee's sale recently by C. K. Williams. The stock was bid in by D. S. Lewis for $1860, and he also bought the book accounts for $150. F. B. Robinson bought the outstanding notes for $50.50.

Sycamore, Ill.—The Poor Man's Axle Grease Co., R. Lovering has sold out his interest to William Beckett.

Tavistock, Ont.—Geo. McKay, the enterprising young implement dealer, has purchased the premises occupied by H. Reiber, tinsmith, on Hope Street west. The price paid was $1200. The property is very conveniently situated for business.

Trenton, Ohio.—Bork & Funk are erecting a large agricultural implement establishment.

Vergennes, Ill.—Perry Bros. contemplate the erection of a large Hardware store.

West Derry, N. H.—F. L. Bray has sold out his stock to John Gegenheimer, of Old Orchard, Me., who will continue the business.

Business Embarrassments.

Baltimore, Md.—Ideal Heating & Plumbing Co., applied for relief in bankruptcy.

Bay City, Mich.—Teeporten & Kent, Washington Avenue, are in the hands of the sheriff.

Madisonville, Tex.—Dallas Hawkins has assigned to James Cleere with preferences for $1055.22. The assets are about $1200.

Marysville, Ohio.—John P. Connor, Hardware, has made an assignment to Aaron Boylan, of Milford Centre. His liabilities are estimated at $6000, and his assets will reach $4000.

Nashville, Tenn.—J. M. Hamilton & Co., Hardware, William Livingston, surviving partner, has made a special assignment to W. M. Pollard, trustee.

Peoria, Ill.—J. S. Tammen, stock has been sold by sheriff to C. E. Ulrich.

Rochester, N. Y.—Judge Sutherland has granted a decree directing Frank Croston as assignee of Homer A. Kingsley & Co., to distribute the funds in his hands among the creditors of the Hardware concern. The unpreferred creditors will receive about forty cents on a dollar. The total assets amount to $6000, of which about $2000 are preferred.

Smith Falls, Ont.—George R. McCarthy has assigned to Ogle Carss.

Toronto, Ont.—D. J. Dow has assigned to R. Lee.

Recent Fires.

Centralia, Ill.—J. W. Tate, agricultural implements, etc., destroyed by fire. Loss, $3000.

Coldwater, Mich.—The Ward & Dolson Building, occupied by J. P. Garber, agricultural implements, destroyed by fire.

Georgetown, Ohio.—A. Markey, store destroyed by fire.

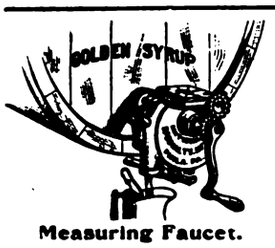
Gibsonburg, Ohio.—Schumaker's Hardware store, destroyed by fire.

Kingsville, Ont.—A. G. Adams, damaged by fire. Loss, $4000; insured for $2000.

Oakwood, Ill.—Hayworth & Lonstreth, Hardware, destroyed by fire.

Pilot Mountain, N. C.—F. L. Smith, damaged by fire; insured for $300.

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Measuring Faucet.


Tobacco Cutter.

We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

NATIONAL SPECIALTY MFG. CO.

Lehigh Ave. and Third St. - PHILADELPHIA, PA


No. 3 Mill.


No. 1 Mill.

A First-class Hamburg Firm

Of wholesale dealers and agents in household goods, specialty enameled ware, with a large staff of agents all over the country, and doing a large trade with the Hamburg export firms, is open for the *import* of American household machines and similar goods; no bicycles. First-class bank references. . . .

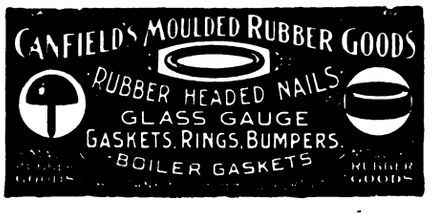
Apply to "FOREIGN," care "HARDWARE," No. 143 Chambers Street, New York.



ORDER FROM
The Largest Manufacturers of Lined
SPARK GUARDS
In the United States. . .
Dow Wire Works Co.,
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Kearney & Foot Co.

Manufacturers of the
BEST FILES AND RASPS IN THE MARKET.
100-102 Reade Street, New York.
SEND FOR CATALOGUE AND PRICES.



It Strikes Every Hardware Dealer.

Harden Saddle & Specialty Co., Toledo, Ohio. [*Bicycle Saddles*]: In your HARDWARE of May 10, 1896, you were kind enough to give us a write-up, and must say from the number of inquiries we received on the strength of the same, that your journal, it seems, must strike every Hardware dealer in the United States. We have a number of new and improved saddles for the '97 trade, and wish to have an advertisement in HARDWARE. We enclose you clipping showing size of space we would want. Kindly send us price table and oblige.



THESE may seem hot subjects for this season, but it is the time to talk about them.

Kitchen Sets,
FIRE IRON STANDS,
Fire Pokers,
STOVE LID LIFTERS

We have a large line and our prices are low. . . .

Logan & Strobridge Iron Co.,
NEW BRIGHTON, PA.



The Latest Improvements in Tubular Lanterns

ARE THE

No. 16, Buhl New Side Lever, - List, $7.50 per doz.
No. 100 Buhl Headlight. - - $30.00 per doz.



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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over, are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Bliss, N. Y.—Bliss Mfg. Co. has been incorporated by Hattie J. Cross, Norman D. Cross and John D. Howes; to manufacture pumps. Capital stock, $5000.

Chicago, Ill.—The McCormick Harvesting Machine Co. will erect a large five-story building, which will be the largest foundry in the West.

Indianapolis, Ind.—The Buffkin - Nobel Mfg. Co. has been incorporated, to manufacture hand and feed cutters. Capital stock, $60,000.

Irwin, Pa.—Norman C. Ball and John W. Irwin have purchased the handle works of the C. H. Datz Mfg. Co. The deal has been closed and the new firm will take charge at once. The new management will turn out all kinds of handles and hope to be soon running double turn. The name of the new company will be the Irwin Handle Works. The company make a specialty of all kinds of pick handles and hammer handles, making twenty different styles; also manufacturing single-trees.

Lansing, Mich.—The Lansing Implement Co. has been incorporated for $10,000. A. T. Van Dervoort is one of the principal incorporators of the company.

Latrobe, Pa.—A party of Eastern capitalists are endeavoring to locate here and are after the buildings of the defunct Nation's Mower & Reaper Works. It is stated that they will employ 2000 men.

Louisville, Ky.—A stove foundry is to be established at Ashland which will employ 125 men when running at full capacity.

Muncie, Ind.—The Ontario Silver Co. has been incorporated by L McGlashan, C. B. Hyde and E. G. Clark; to manufacture silverware, plated and sterling. Capital stock, $150.000.

New York, N. Y.—Borcher & Axelby Co. has been incorporated by Thomas Borcher, Henry D. Axelby, Henry E. Cowan, Charles J. Hardy and Joseph M. Shellaborger; to manufacture silverware. Capital stock, $15,000.

New York, N. Y.—Empire Wrought Iron Works has been incorporated. Capital stock, $5000. Directors: J. Charles Weschler, Jacob Albert and Charles Hoffman, of New York City.

New York, N. Y. — The Consolidated Pneumatic Tool Co. has been incorporated, to manufacture pneumatic tools and air compressors. Capital stock, $150,000. Directors: John Evans, George T. Hartford and Harry B. Torrey, Boston; O. W. Norcross, Worcester, Mass.; Peter Gray, Philadelphia; George Cohen and W. P. Pressinger, New York City.

Plattsburgh, N. Y. — The Plattsburgh Foundry & Machine Co. has been incorporated. Capital stock, $6000. The directors for the first year are Sidney S. Whittelsey, John Ross and John M. Wever, all of Plattsburgh. The officers are: J. M. Wever, president; John Ross, secretary and treasurer, and S. S. Whittelsey, general manager. Mr. Whittelsey will abandon the Hartwell foundry, having sold his plant to the new company.

Wheeling, W. Va.—The Enterprise Enamel Co. has been incorporated by Theodore Rosshack, C. L. Dover, James F. Dubois, F. F. J. Caldwell and C. A. Schaeffer; to manufacture brown ironware, steel hollowware and other ware. Subscribed capital, $10,000, and the authorized capital, $100,000.

Improved Conditions.

Albany, N. Y.—Some of the prosperity that has been coming for such a long time has at last found its way to this city, and revived the stove industry. The Rathbone, Sard & Co.'s foundry is running on full time, and it has been found necessary to open another shop, No. 2, thereby giving employment to about 500 men. Not since 1893 has shop No. 2 been in operation, and only a few days ago the cobwebs and dust, the accumulation of four years, were swept out, and the men put to work. There are about 150 molders employed in shop No. 2 and about twice that number of helpers.

Anniston, Ala.—Since the burning of the pipe works of the Anniston Pipe & Foundry Co. here a few weeks ago, there has been considerable talk of the plant being removed to Birmingham, but the officers of the company recently decided definitely to rebuild in Anniston, and work has commenced. This is the largest pipe works in the United States.

Ashley, Ind.—The Daisy Implement Co., an effort being made to reorganize the company.

Cincinnati, Ohio.—The Cincinnati Hardware Co. has increased its capital stock from $35.000 to $100,000.

Columbus, Ohio.—The National Hardware Co., of Cincinnati, has increased its capital stock from $35,000 to $100,000.

Detroit, Mich.—The Detroit Brass Works will erect new $8000 factory on Seventh Street.

Dunkirk, N. Y.—The Cortland Howe Stove Mfg. Co., employing about two hundred hands, are contemplating moving to Dunkirk, where better shipping facilities can be had. The Board of Trade has decided to call a special meeting to take prompt action on the matter, and it is thought a suitable proposition will be made to the company to get them to locate here.

Fairhaven, Mass.—The electric plant at the Atlas Tack Co.'s Fairhaven factory was started last week. There are eighteen 1200 C. P. arc lamps lighting the lower floor and office. Charles F. Dillingham is in charge of the plant. The plant was formerly used in the works of the company at Plymouth, and was taken out and installed here by Norman M. Paull.

Fitchburg, Mass.—C. W. Day & Sons, manufacturers of paint brush handles, have just received an order from a Philadelphia firm, for 425,000 ice cream freezer floats, and they report that their business is of a much greater volume than at any previous time since they opened their factory.

Louisville, Ky.—The Kentucky Stove Co. filed articles increasing its capital from $10,000 to $26,000.

Montpelier, Ind. — The National Steel Casting Co., plant now in full operation.

Orleans, Ind.—Shirley Bros., the well-known Hardware dealers, report a decided improvement in business in all lines. In order to take proper care of their largely increased trade, they have just put in a Warner Standard Hand Power Elevator, which will greatly facilitate the handling of the immense stock of Hardware, buggies and implements which they carry.

Seattle, Wash.—President Price, of the Port Angeles steel plant, is in the city en route East. Work will begin at once on the mill. It is intended to put in machinery to make tin plate, as well as steel rails, bar iron and nails. The iron ore and coal are found within shipping distance of the plant. The local demand on the coast is sufficient to keep a large mill busy the year round.

Southington, Conn. — Business at the Southington Cutlery Co. shows a marked improvement. The bicycle crank department, which has been anything but a profitable venture, has taken a turn for the better. The company has orders sufficient to keep the department running until next June. There is a marked improvement in other departments and the working force will be considerably increased this winter.

Springfield, Ohio.—The Thomas Mfg Co., farm implement department has been opened, and about eighty men put to work.

Terre Haute, Ind.—The Terre Haute Shovel & Tool Co. is enjoying the advance posters of prosperity in the form of orders for their products to be shipped to Japan and even to the far away regions of South Africa. One hundred and fifteen men are employed; the factory has only closed down once the past season, and that was but for a short time in July at the regular annual inventory, when a receipt of all stock is taken. The present output, when working with ordinary force, is 125 dozen shovels, 50 dozen forks, 100 dozen D handles and 100 dozen long handles per day.

Wabash, Ind.—The stockholders of the Standard Lamp Co. met to elect a board of directors and other officers for the company and arrange for the removal of the establishment from Marion, its present location, to this city. John A. Bruner was elected president of the new company, W. A. McNamee, vice-president; D. C. Gibson, secretary; A. F. Opperman, general manager, and Jacob Hyman, assistant manager and treasurer.

Wrightsville, Pa.—The Wrightsville Hardware Co. is now running night and day. A year ago they were running on half time.

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THE BANNER

Is the Cycle Lamp for '97.

None as handsome, as practical, nor as thoroughly and honestly made. Throws a powerful, broad light, having a **3-inch optical ground double convex lens.** No lamp so easily cleaned. Has removable top burner and reflector, removable and **reversible oil pot.** The only lamp made with a positive wick-locking device—it acts on the ratchet. Your dealer should have them; until he has will send, carriage paid, for **$3.00,** to any part of the United States.

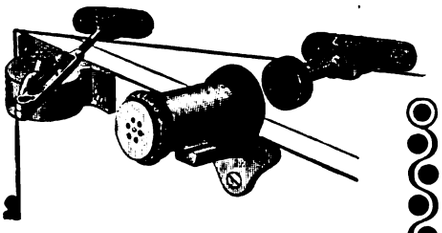


Rigid Bracket, adjustable to either Post or Fork; Ball and Socket Joint, 50c. extra.
Absolutely Wind Proof.
Will not Jolt Out.
No Solder to Melt.
Fills on Outside Oil Fount.
Solid Brass, Heavily Nickeled.
Burns Kerosene in Packed Fount.
No Splashing.
Handsome Side Lights.

6½ INCHES HIGH.

New York. Boston. Chicago. **PLUME & ATWOOD MFG. CO.** FACTORIES: Waterbury and Thomaston, Conn.

The Whole World



uses the Eclipse Door Check and Spring. Everywhere it is closing doors noiselessly. Hardware dealers who sell it make a profit and find it a satisfaction-giving device that closes doors without any slamming and keeps out dangerous drafts. The Eclipse is suitable for all kinds of doors and in all places. We have reduced our prices for this season. Send for the new list, also for our new advertising matter.

Sargent & Co., Manufacturers,
New York; and New Haven, Conn.

"Copperized" c. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

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The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

Hot & Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

THE PERFECT SAW JOINTER

& Skate Sharpener.



Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

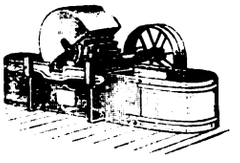
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HARDWARE MANUFACTURERS' AGENTS,

124 Chambers St., New York.

NEW YORK OFFICE OF

THE PHOENIX HARDWARE MFG. CO.
MASON & PARKER. J. B. TATEM & SON.
THE BARNES TOOL CO. E. LOUD MFG. CO.



Washer for Cleaning Rubber and Shoddy.

SPECIAL MACHINERY

WIRE drawing. CLAY working.
RUBBER washing. CHAIN WINDING.
CUTTING and WELDING machines.
POWER TRANSMISSION, Pulleys, Shafting, Gearing Boxes, Collars, etc., etc.

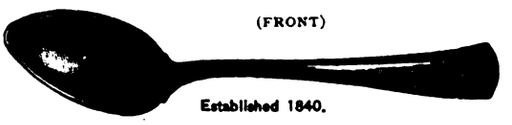
TURNER, VAUGHN & TAYLOR CO.,
CUYAHOGA FALLS, OHIO, U. S. A.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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Highest Grade of
Silver Plated Ware
In Spoons, Forks, Etc.
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L. BOARDMAN & SON, East Haddam, Conn.



(BACK)

Also Nickel Silver Flat Table Ware and Britannia Spoons.

Write for Catalogue and Prices.

GEO. F. TAYLOR'S SONS,

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FERTILIZER CHEMICALS and MATERIALS;

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BONE BLACK

For Tempering, Coloring and Filtering Purposes.

WARNER ELEVATORS



THE WARNER ELEVATOR MFG. CO.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Arkansas City, Ark.—J. N. Davis, newspaper publisher, will embark in the bicycle business. He is inviting propositions from manufacturers.

Assumption, Ill.—J. A. Turgeon, musical merchandise, is preparing to add bicycles, and invites propositions from manufacturers.

Black Rock, Ark.—Chas. G. Blakeslee Hardware and machinery, will add a line of bicycles.

Chicago, Ill.—Boyce Cycle Pump Co., at Chicago, has been incorporated. Capital stock, $10,000. Incorporators: Benjamin Boyce, R. D. Davis and C. H. Magoon.

Chicago, Ill.—The Northwestern Bicycle Protective Association has certified to a change of name to the Columbian Guaranty Co., also a change of object of incorporation.

Chicago, Ill.—The Zeller Tire Machine Co. has been incorporated by R. C. Robinson, E. H. Ashcraft and F. M. Cox; to manufacture tire setting machine. Capital stock, $20,000.

Cleveland, Onio.—The Cleveland Cycle Supply Co. has been incorporated; capital stock, $10,000; the object being to sell bicycles with supplies and fittings. Edwin A. Bonfield, George H. Bonfield, J. H. McNair, J. W. McNair and M. W. Beacom are the incorporators.

Cleveland, Ohio.—The Crown Mfg. Co. has been incorporated with a capital stock of $50,000. to manufacture and sell bicycles.

Cleveland, Ohio.—The Lambeth Bicycle Saddle Mfg. Co. has been incorporated. Capital stock, $5000. The object is to manufacture and deal in bicycle supplies. M. M. Hobart, A. B. Footer, John C. Lowe, W. D. McCrory and A. A. Clay are the incorporators.

Columbus, Ga.—J. F. Weathers & Bro., furniture, etc., will add a line of bicycles, and are inviting propositions from manufacturers.

Cortland, N. Y.—The Cortland Carriage Goods Co. has been incorporated to manufacture bicycle goods, etc. Capital stock, $100,000. The directors are E. H. Brewer, E. A. Brewer, D. H. Brown, A. W. Brown and Andrew Aimsley.

Downers Grove, Ill.—Brode Hardware Co. will add chainless bicycles.

Franklin Grove, Ill.—A. F. Dieddorff & Co., Hardware, etc., will add bicycles.

Grand Rapids, Mich. — The Hamilton-Kenwood Wheel Co. has been incorporated by Francis Letellier, J. D. Crane, N. L. Avery and R. C. Luce. The company is the reorganized Hamilton-Kenwood Cycle Co. The company will continue the manufacture of the Hamilton-Kenwood wheel.

Keithsburg, Ill.—Perry B. Humbert, bicycles, will commence business. He is inviting propositions from manufacturers.

Lakeland, Fla.—L. W. Cowdery, Hardware, will add bicycles.

Luverne, Ala.—P. F. Folmer Hardware Co. have commenced business, and will add a bicycle department.

New York, N. Y.—The Bayveigere Bicycle Co. of New York City has been incorporated, to manufacture bicycles and other vehicles. Capital stock, $30,000. Directors: Robert Taylor, Greenwich, Conn., and Theron Baldwin and George William Burleigh, New York City.

New York, N. Y.—The Liberty Cycle Co. has been incorporated. Capital stock, $100,000. Directors: William I. Allen, of Bridgeport, Conn.; William F. Wilson and John H. Holden, of New York City.

Plant City, Fla.—O. A. Strickland, Hardware, etc., desires agency for good bicycle.

Springville, Ala — J. W. Ash & Co., drugs, will add a line of bicycles.

Toledo, Ohio.—The La Fave Clip & Handlebar Co.. since the purchase of the plant by H. D. Wood, has been changed to the Wood Mfg. Co.

Toledo, Ohio.—H. J. Young, formerly of the Kirk-Young Mfg. Co., will shortly launch another bicycle manufacturing enterprise on the market.

Toledo, Ohio.—The Toledo Cycle Supply Co. has been reorganized by taking in Latimer Thompson and J. F. Draper. The business will be greatly extended.

Changes and Improvements.

Albany, Ind.—The Albany Mfg. Co., operating the Albany Bicycle Tubing Works, has received an order from the Western Wheel Works, of Chicago, for 1,000,000 feet of cold-drawn bicycle tubing. This, with many other smaller orders, will necessitate the employment of a night force.

Aurora, Ill.—Smith & Keene, bicycles, have sold out.

Defiance, Ohio.—The Defiance Bicycle Co. has put its plant in operation on a large order for wheels for 1898.

Jacksonville, Fla.—Sabel Bros., vehicles, bicycles, etc , foot of Laura Street, closing out entire stock of wheels.

New York, N. Y.—Anglo-American Cycle Fittings Co., No. 105 Chambers Street, have dissolved. A receiver was dispensed with, as the company have no assets and no liabilities.

Ogden, Utah.—The Browning Bros. have been incorporated, with a capital stock of $100,000, and succeeds to the bicycle business formerly conducted by Browning Bros.

Peoria, Ill.—The Sieberling bicycle factory, which is now employing 200 hands, will put on 200 more this week or the next, and it is expected to have 600 or 800 employed later. It is intended to turn out 40,000 wheels during the coming year.

South Norwalk, Conn.—George F. Bearse, bicycles, reported to have been succeeded by Frederick W. Rogers.

Springfield, Ohio.—The Springfield Rubber Tire Co., manufacturers, reported to have sold out.

Stamford, Conn.—John C. Robinson, bicycles, etc., reported to have sold out.

Toledo, Ohio.—The Kirk-Young Mfg. Co. is now the Kirk Mfg. Co.

Westboro, Mass. — Cycle Improvement Co., bicycle pedals, succeeded by Waltham Watch Tool Co.

Westfield, N. J.—The Bard Cycle Co. has purchased the business of the Plainfield Cycle & Sporting Goods Co., on North Avenue, and will continue to handle the same line of goods, with the Keating bicycle as a specialty. The president of the company is George L. Colgate.

Williamsport, Pa —The Tivy Cycle Mfg. Co., whose plant on Walnut Street, just north of Third. is much too small to accommodate their growing business, will erect on the present site a handsome four-story building, equipped with the most modern machinery for the manufacture of bicycles. L. Maxwell, the manager, has received a number of tempting offers to locate in other nearby cities, but having secured the present building and ground for a nominal sum, he has decided to remain in Williamsport. The Tivy bicycle plant was one of the busiest workshops in the city the past summer, giving employment to a day and night force for many weeks. The material for the new building will be of iron or brick. Work will begin at once.

Recent Embarrassments.

Boston, Mass.—B. B. Emery & Co., bicycles, reported application to force into bankruptcy.

Buffalo, N. Y. — Finn & Sullivan, bicycles, advertised to be sold out by sheriff.

Clinton, Ont.—T. L. Brown, bicycles, reported to have made an assignment.

Derby, Conn.— P. P. Francis. harness and bicycles, reported to have made an assignment.

LaPorte, Ind.—The Allen Mfg. Co., makers of bicycles and operators of a large plant within the walls of the Northern Indiana prison, A. S. Nichols, appointed receiver.

Newark, N. J.—The Beck Bicycle Saddle Co., Oscar Keen, appointed receiver. The assets of the concern are placed at $36,000 and the liabilities at $34.000.

Philadelphia, Pa. —Columbia Tube Co., manufacturers bicycle tubing, reported to have made an assignment.

Toledo, Ohio.—The Toledo Brazed Fork & Tube Co., receiver's sale advertised.

Recent Fires.

Moorhead, Minn. — J. E. Johnson, bicycles, etc., destroyed by fire.

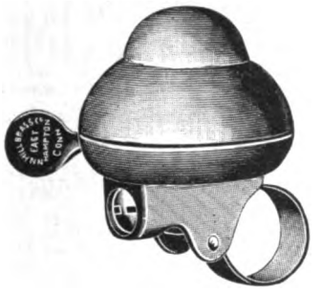
Washington, D, C.—Lee & Woods, bicycle repair shop, No. 467 Florida Avenue, N. W., slightly damaged by fire.

Windsor, N. S.—N. E. Davidson & Son, boots, shoes and bicycle repair shop, Gerrish Street, destroyed by fire.

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STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.

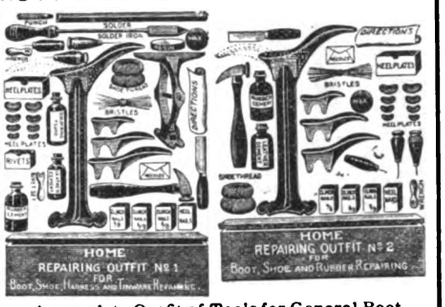
DUNBAR BROTHERS
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM
SHEET STEEL . STEEL . BRASS WIRE
BRISTOL, CONN. P.O. BOX 416

IS A GOOD ONE.

Morgan & Wright, Chicago, Ill. [*Bicycle Tires*]: There can be no question about the advisability of using the Hardware trade as a means of disposing of bicycles and bicycle parts, and as to the efficiency of HARDWARE, we can only say what we would say in reply to an inquiry from any other publisher, i. e., we have no direct means of knowing whether our "ads" do us good or not. If we insert an "ad," it is on our judgment that the publication is a good one.

"A Box of Ammunition for the Battle of Economy" is

ROOT'S HOME REPAIRING OUTFITS!



A complete Outfit of Tools for General Boot and Shoe Repairing. **Great Time and Money Savers!** Send for description of our full line and **let us name you prices.**

For Sale by every up-to-date Hardware Dealer.

THE ROOT BROS. CO.,
Originators and Sole Mfrs., Plymouth, Ohio.

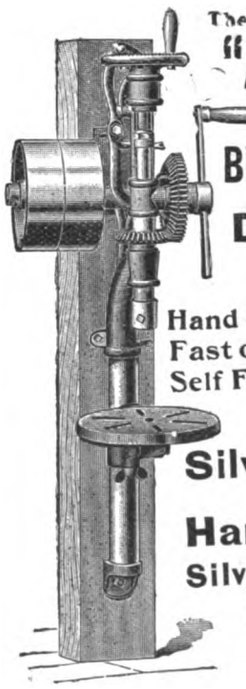
Headquarters FOR ELECTRIC and PORTABLE **Watchman's Clocks.**
Lowest Prices Latest Improvements
PATENTS 1886-1893.
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THE "ALERT."
This is a One (1) Station Watchman's Clock
Price, with 100 paper disks, complete, - $10.00

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THE BEST
TRADE MARK
BRISTOL BELL CO.
BRISTOL, CONN., U.S.A.



The . . .
"Advance"
line
Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

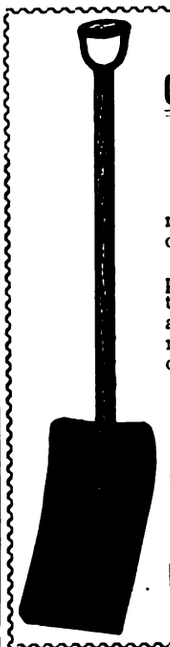
ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .
The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.



KOHLER'S 8 in. COAL and FURNACE SCOOP.

Blade 8 inches wide, made from best quality of No. 18 gauge steel. . . Our Cyclone Shovel proved such a success that a demand arose for a narrower blade for furnace use, hence we produced the one here shown.

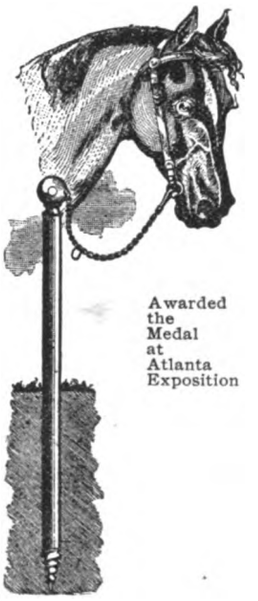
Send $3.25 for sample dozen.

They go like "hot cakes."

Before you buy Spring Hinges write us.

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CANTON, OHIO.

OHIO METAL CO.,
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Awarded the Medal at Atlanta Exposition

Incorrodible Steel Hitching Post, ornamental and lasts a lifetime.

Automatically takes up slack of chain.

Freedom and comfort for animal. Safety and security for owner.

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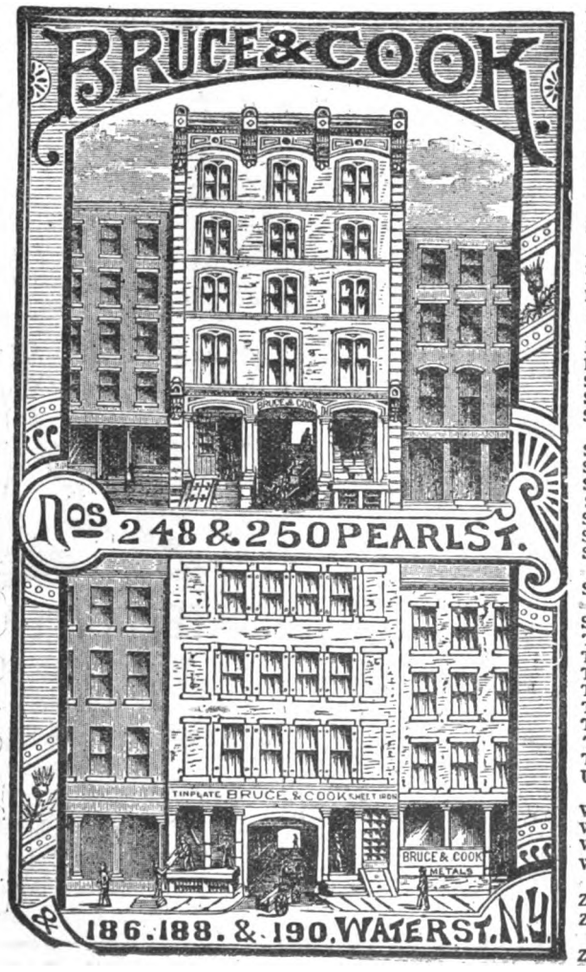
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TIN PLATES AND METALS,

186, 188 and 190 Water St.,
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We give below a list of goods which we have in stock. You will find our prices as low as any in the trade, quality considered. It will give us pleasure to receive your orders, which shall have our very best attention and prompt shipment.

Antimony
Babbit Metal
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Cold Rolled Iron
Common Sheet Iron
Copper Bolts
Copper Bottoms
Copper Sheets and Circles
Copper Wire
Corrugated Leader, Galvanized Round & Square
Corrugated Leader, Tin Round and Square
Corrugated Leader, Elbows and Shoes to match Tin and Galvanized Leader
Crystal Stove Boards
Dampers & Damper Attachments
Dripping Pans
Eave Trough
Eave Gutter
Eave Trough Irons and Spikes
Elbows
Embossed Sheet Iron
Embossed Elbows and Pipe
Fire Pots
Galvanized Sheet Iron
Gutter Strainers
Hard Metal
Leader Hooks, Black and Tin'd
Lead
Little Wonder Punch
Lysle Cleat Former
Mallets
Malleable Ears



Maneer's Bench
Marking Metal
Metallic Paint
Milk Can Handle
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Nails Roofing, ¾ and 1 inch.
Pail Woods
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R. G. Cleaned Sheet Iron
Ribbed Leader
Rivets
Roofing Tin
Roofing Cross Lock Seamers
Rosin
Russia Sheet Iron
Solder
Soldering Coppers
Spangler's Double Lock Edger
Spelter
Spelter Solder
Squaring Shears
Sterectype Metal
Stove Bolts
Stove Pipe
Stove Pipe Collars
Stove Pipe Crimper and Beader
Strainer Wire
Taggers' Iron
Taggers' Tin
Tin
Tin Plates
Tin Shingles
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Zinc for Etching purposes
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Manufacturers of the Most Complete Line of

DOUBLE-ACTING FORCE LIFT and WIND MILL

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The ONLY Pump with ALUMINUM VALVE SEAT.

Write for Catalogue and Prices.

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FORCE LIFT SPRAY TANK **PUMPS**

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Wanted Manufacturers to send catalogues of different lines of goods with best quantity prices and terms. We close out jobs of all kinds **for Cash.** Send samples for approval. We handle big lines of 5 and 10 cent goods.

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"Wm. Kline's Bargain House," (Jobbing only.)
"Boston 20th Century Store."
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ALL CENTRALLY LOCATED.

QUADRUPLE Your Spring Sales



In these lines by stocking up with **plain** and **decorated**

"STANDARD" WATER PAILS, DAIRY PAILS, CHAMBER PAILS, CUSPIDORES, &c., for Office, Lobby, Hotel, Hall and Home.

WASH BASINS, SLOP JAR MATS.

Made of **strong fiber, wound,** and **steel bound,** they do not split open, nor chip off at edges, neither do their truss bottoms warp, loosen or leak.

All "Standard" goods are **waterproofed throughout,** and then **indurated** by oxidation until **absolutely unsoakable.**

"Standard" is the only Fiber-Ware having **hand-painted decorations,** which, with its other merits, makes it outsell all similar ware.

Catalogue and price list, with full particulars, sent to dealers on application to the above company.

ON OUR AD. LIST AS ONE OF THE BEST.

Troy Nickel Works, Troy, N. Y. [Alaska Stove Hardware]: HARDWARE is on our advertising list as one of the best. We will be glad to keep you in this position.

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149 CHAMBERS ST., NEW YORK.

I HAVE just purchased by chance, the greatest lot of first-quality Axes and Hatchets ever offered. They will be labelled with my special label, "H. J. Brown." I cannot use the manufacturer's name, as the prices I am offering the goods at would hurt the market for these goods forever. Below you will be convinced that if I was to offer the Axes together with the reputation they have, I would surely ruin a manufacturer.

I bought this lot of goods for cash, and therefore can offer them at such a reduced price. You will also find that I am offering a great many other goods at sacrifice prices, which I have purchased by chance, at auction, and in the job lot way. I am working at a Fall Catalogue of a full line of goods I carry. This will be ready in about 10 days.

If you wish any of the bargains offered, send your order at once.

Single Bitted Axes, 1st Quality, made by one of the best makers, labelled H. J. Brown & Co. Black Painted. Assorted kinds and assorted weights.



H. J. BROWN & CO.'S S. B. AXES—1sts.

KENTUCKY PATTERN.

Weights 3½ to 4½, 4 to 5, 4½ to 5½, 4½ to 6, 6 to 7 lbs. at $3.50 per doz.

Have also a few Balt Kentucky Pattern, 3½ to 4½ lbs. at $3.50 per doz.

H. J. BROWN & CO.'S S. B. AXES.



YANKEE PATTERN.

Weights, 3½ to 4½ and 4 to 5 lbs. at - - - $3.50 per doz.

Can also give you some Dayton Pattern, which is similar to the Yankee.

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H. J. BROWN & CO.'S S. B AXES—1sts.

MICHIGAN PATTERN.

Weights, 3½ to 4½ and 4 to 5 lbs. at - - - $3.50 per doz.

H. J. BROWN & CO.'S HANDLED AXES, 1sts.

Black painted and fitted with 36 in. hickory handles. Very fine goods.

Weight, 3½ to 4½, and 4 to 5 lbs. at - $4.75 per doz.

All Axes will be labelled H. J. Brown, Cast Steel, Warranted.



H. J. BROWN & CO.'S S. B. AXES—1sts.

GEORGIA PATTERN.

Weight, 4 to 5 and 4½ to 6 lbs.

$3.50 per doz.



H. J. BROWN & CO.'S S. B. AXES—1sts.

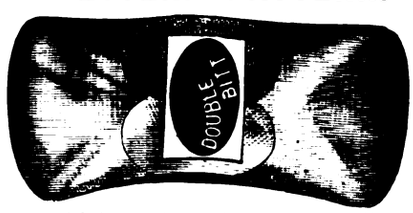
TURPENTINE BOXING PATTERN.

Weights, 5½ to 6, 5½ to 6½, and 6 to 7 lbs.

Price, $4 00 per doz.

H. J. Brown & Co.'s Double Bitted Axes, 1sts.

WESTERN PATTERN.

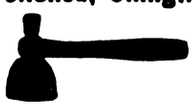


Which is Best Pattern to Sell.

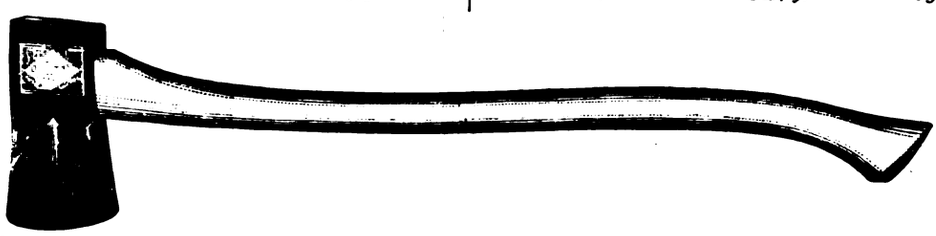
Weight, 4 to 5 lbs. at - - - $5.00 per dozen.

Will have other sizes in soon.

Solid Steel, Full Polished, Shingling Hatchets, 1sts.



Nos.	1	2	3
Per dozen,	$2.75.	$3.00.	$3.30

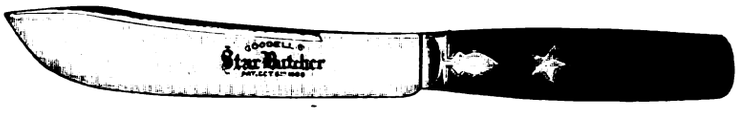


Send order from above Special Goods by return mail if you wish any of the Bargains. Terms, net cash, F. O. B. New York.

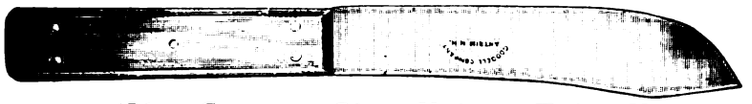
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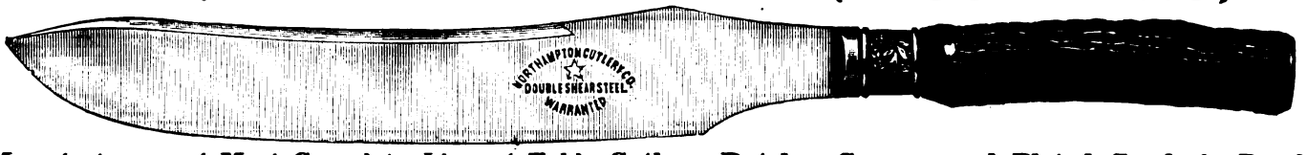
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Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

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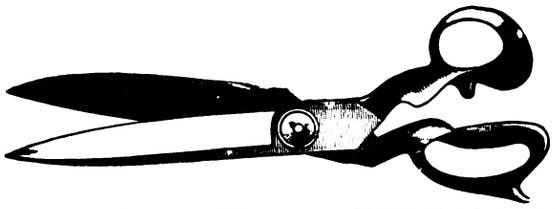
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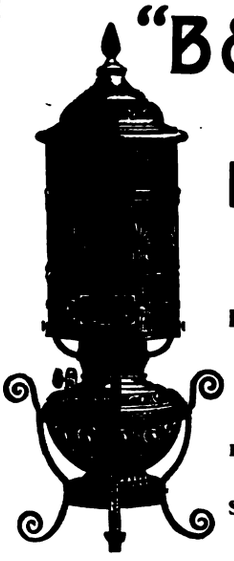
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. . Manufacturers of . .

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"Replies From All Sections."

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THE ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

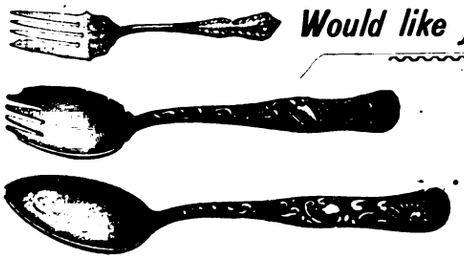
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Would like your business.

Their goods sell QUICK.

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THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
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Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when THE VERY BEST can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF JOSEPH RODGERS & SONS, LTD., SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

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Its Corporate Mark

Is among the oldest, and now over 200 YEARS old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

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ALFRED FIELD & CO., 93 Chambers Street, New York.

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Price per gro. $5.00.
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LINSEED OIL COMPANY
LINSEED CRUSHERS.
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BRASS, NICKEL PLATED.
No. A1 Per dozen, $4.00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
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PRIEST'S CLIPPERS
BALL BEARINGS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
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ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
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Prices and terms quoted promptly on application

HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.
Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
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What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

EACH YEAR RECEIVED BETTER RESULTS.
Standard Tool Co., Cleveland, Ohio. [Tools]: During the five years we have had an advertisement in HARDWARE we have each year received better results.

. . . HEARTILY RECOMMEND "HARDWARE."
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One of the Best Mediums Known.
C. T. Williamson Wire Novelty Co., Newark, N. J. [*Corkscrews*]: To present new goods to the trade we consider HARDWARE one of the best mediums known.

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Divine Bros., Utica, N. Y. [Buffing Wheels]: Our advertisement in HARDWARE was the best investment we ever made in the advertising line.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

W. W. Lawrence & Co. Pittsburg, manufacturers of white lead, paints, colors and varnishes, want several salesmen for Ohio, Indiana, Michigan and Pennsylvania. Young men preferred.

A FIRST class heavy sheet iron worker, who understands the laying off difficult patterns, and who can work well on high structures, and, if necessary, take charge of a gang of men. DOW WIRE WORKS CO., Louisville, Ky.

BOY wanted, about 15 years old; must have had experience in a retail Hardware store, be quick and bright; address by letter only, stating age, references, and salary to start. Address HARDWARE STORE, No. 2105½ Third Avenue, New York City.

WANTED—First-class traveling salesman to canvass manufacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

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A FIRST class stove pattern maker wishes position in pattern shop, fast worker neat and artistic. Address GOOD MAN, care Hardware, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., BOX No. 37 Concord, North Carolina.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

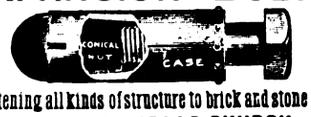
WANTED by a practical mechanic, with a good education and 17 years' experience in working iron and steel, managing help, buying of mill supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport, Conn.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., careHARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man. Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober. can give reference; for further particulars, address G G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. BOX 533, Lake Mills, Ia.

$300 to invest with a position as manager or buyer. Age 27. Seven years experience with one of the oldest and best known wholesale Hardware firms on Chambers Street, New York. Make an offer if you are open for push and stick-to-business methods. Address 412, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man 30 years of age wants position in store or road. Nine years experience in Hardware, stoves and hot air furnaces. Can figure estimates from plans and specifications. Good bookkeeper. Fine penman. A No. 1 reference as to honesty, sobriety, etc. Address LOCK BOX 34, Jeannette, Pa.

POSITION wanted by a practical man, who has held positions as tool maker, foreman and assistant superintendent. Up on modern methods and able to get out work at lowest cost. Address FREMONT, care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. BOX 1464, Boston.

Side Line Wanted.

LINE of legitimate Hardware wanted by traveling man of 12 years' experience with established trade through Iowa, Minnesota and Wisconsin. A No. 1 references. Address G. 100, care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

SALESMAN visiting jobbing Hardware trade in Canada desires good line of goods on commission. Address N. M. 503, care HARDWARE, No. 143 Chambers Street, New York.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

Side Line Offered.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

WE want salesmen visiting Hardware and harness trade to sell our new line of chain goods and sheet steel snaps. Great sellers! State present line; references, territory. IRA F. WHITE & SON No. 76 Park Place, New York.

Side Line Offered.

WE offer good side lines to those calling on Hardware, harness, carriage manufacturers and department stores, both wholesale and retail. Address FERNALD MFG. CO , North East, Pa.

A Business Wanted.

$200 to invest with Lathe and Tools for mechanical repair work in small Hardware store. Will buy business on easy terms. Age 26. Eight years in wholesale and retail Hardware in New York City. Address 500, care HARDWARE, No. 143 Chambers Street, New York.

For Sale.

MUST be sold before the holidays, clean stock of Hardware with fine cash trade. Capital required $2500 to $3000. This is a Klondike for some one. P. O. BOX 90, Castile, N. Y.

A good chance for business $2,000 will buy stock and fixtures of a well established Hardware store, in a live and growing town of about 5000, in New Jersey, and numerous small towns around. Good business can be done. Proprietor has other business and cannot give his entire attention to it. Address C. B., care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S. M. care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE or on royalty to Novelty Concerns, a combination rigid and flexible coaster. Nothing like it. Cheap to manufacture. Thousands of them wanted. Boy's delight. A Klondyke for the party that gets it. Write quick for cuts, etc., to B. F. HOOK. Holmesville, Ohio.

GENERAL Hardware Store, established on leading thoroughfare, Brooklyn. Good opening for a live man. Address K. care HARDWARE, No. 143 Chambers Street, New York.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address BOX 90, care HARDWARE, No. 143 Chambers Street, New York.

AN old reliable Hardware business in one of the most prosperous county seats in Ohio. Nice clean stock. This is a first-class opportunity for one or two persons to step into an established and profitable business Address immediately, MEEKER BROS., No. 85 North High Street, Columbus, Ohio.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Attention Agents.

AGENTS make $5.co to $10.00 per day selling Aluminum Sign Letters, Door Plates, House Numbers, Street Signs, Aluminum Bicycle Chain Guards and Novelties; exclusive agency; write quick. J. W. BARNETT, Manager, Columbus, Ohio.

Agency Wanted.

RESIDENT agents wanted in all unoccupied territory to sell good paying article, used in stores, churches, schools and offices. Address A. M SCHEFFEY & CO., No 92 Reade Street; New York.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10.000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



"ERIE" ALUMINUM

For Christmas "ERIE" ALUMINUM, The Finest Ware.

GRISWOLD MFG. CO., Erie, Pa.



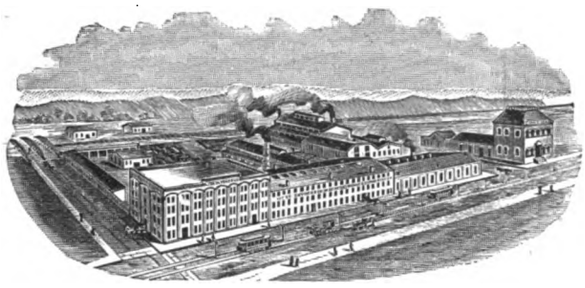
COVERT MFG. CO., WEST TROY, N. Y.

Derby Snap,

With Plated, Rust Proof and Guarded Spring. . . .

"The latest and best."

For sale by Jobbers at Manfrs. prices.



WHERE BOOMERS ARE MADE.

EVERY ARTICLE

of our make bearing the name Boomer is guaranteed FIRST CLASS in every respect.

BOOMER FURNACES

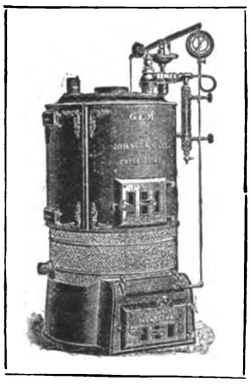
SUCCESS BOOMER, BOOMER OAK,

BOOMER STEEL RANGE, BOOMER CANNON STOVE.

When wanting a Furnace or Stove why not buy one that has been thoroughly tried and tested.

HESS, SNYDER & CO., Mfrs.,

MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

FOR HOT WATER and STEAM HEATING.

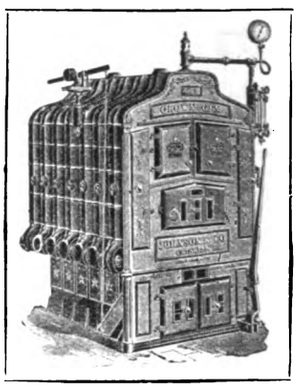
GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

. . . . MANUFACTURED BY

JOHNSON & CO.,

CATSKILL, N. Y., and 84 John St., New York.

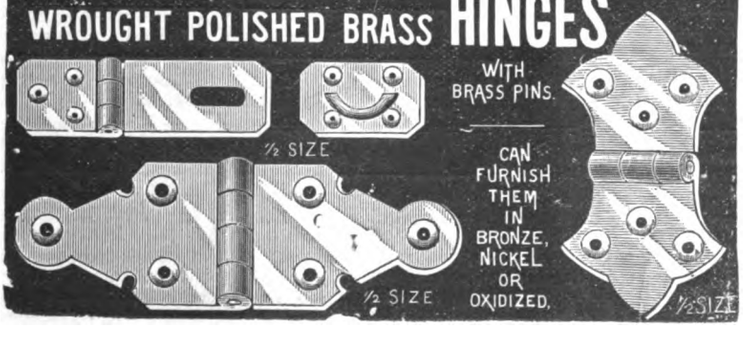


R. CHRISTENSEN, CABINET AND GENERAL HARDWARE. 88 CHAMBERS ST., NEW YORK.

MANUFACTURER OF

WROUGHT POLISHED BRASS HINGES

WITH BRASS PINS.



CAN FURNISH THEM IN BRONZE, NICKEL OR OXIDIZED.

PARKS STOVE POLISHING MITTEN.



Best Made.

Write for Prices.

PARKS & PARKS, TROY, N. Y.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters..... } 40&12½%
Ship Carpenters..... }
Railroad. ..... }

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....38 @ 80c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.. ...$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 35&10&2%
First quality, 14, 16 and 20 gauge $7.50.....35&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&2%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag.....$1.30
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag.....$1.55
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag.....$ .35
Buck and Chilled Shot, 25-lb bags, ₩ bag.....$1.55
Buck and Chilled Shot, 5-lb bags, ₩ bag.....$ .35
Dust Shot, 25-lb bags, ₩ bag....$2.00
Dust Shot, 5-lb bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Ducking, kegs ..6¼ lb 2.25
[For 1000 lb lots 10% discount.]
Blasting and Mining, A..25 lb 2.25
Blasting and Mining, B. 25 lb 1.50
Laflin & Rand W.-A. Smokeless:
Sing e Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.: In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .13

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.50
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black..... 41.00
Drum, equal in bulk to 100 lb, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montrose, Galien, Mich.:
Camp's Success.....₩ doz. $3.80
Galien Safety.....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz. $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burt n's, No. 2....₩ doz. pa rs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs.$1.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ₩ lb 9c.....15@15&5%
Hay-Budden, Wrought.... 8¾@9¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $13.00..20%

Augers and Bits—

Boring Machine .....75@75&10%
Cincinnati Tool Co.:
Bell hangers' bit.....40%
Brace twist drills for metals, 50&5@50&10%
Brace twist drills for wood, 40&5@40&10%
Screw and plug.....25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. M Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $24.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....35&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $60....50@50&10%
Steer's No. 1, $30; 2, $18.....40%
Stearns' No. 2, $48.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, ₩ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&10@70%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@7 %

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....60&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, ₩ gr.....$3 00@$3.25
H'ld Scratch ₩ gr.....$3.75@$4.00
Pat. Peg ₩ gr.....30@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr.....$1.35@$1.45
Shouldered Brad. ₩ gr....$1.50@$1.65
Socket Scratch ₩ doz....$1.0 @$1.10
Stanley Rule & Level Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls. Nos. 1, $12; 2, $13; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $13; 4, $12; 5, $13.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands.$5 00@5 25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $36.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
₩ dos. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....35%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40@40@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....25&10%
Morrill's No. 1, $10.00 per dos.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $5. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, ₩ doz. $15.00.....45%
Ives' ₩ doz. $30.60.60&10@60&10&5%

Blind Adjusters—

Domestic..₩ doz. $2..33⅓@33⅓&10%
Excelsior..₩ doz. $10.00....50&10&2%
N rth's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₩ gro. sets.....$5.50
Gorhans Improved Star Tenon ₩ gro. $1.00.....35%
Merriman's Brass Lever ₩ gr. $15.00
Merriman's Iron Lever ₩ gr....$9.00
Millers Falls ₩ set $1.00.....15&10%
Security Gravity ₩ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ₩ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....35%
Perfect Safety.....35%
Stowell Novelty Block.....50&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&10@70%
Wrought Shutter, Sargent's list..60&10&10@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list50&10@5&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—

Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..5&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96.75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—

Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—

Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....20%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	3.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's. Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....7.@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114½.....60&10%
No. 208½@214½.....60%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@30%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....80%
Foster Bros. Round Hds.....40%
L. & L. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@40&10%

CAST IRON—

Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns.75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow.....60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow.....
Fast Joint, Narrow.....
Fast Joint, Light Narrrow.....
Fast Joint, Broad.....
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..
} 75%

Can Openers—

American.....₩ gross $1.75@$1.90
Champion, ₩ doz. $3.00.....50%
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $12.00.....35%
Dunlap's Sardine Scissors, ₩ doz. $5.00.....25%
Dunlap's Wood Handle No. 2 $1.75.35%
Goodell's Acme, ₩ gr. $8.00; ₩ doz. 75c
No. 5, Iron Handle, ₩ gr....$2.00@2.25
Sardine Scissors...₩ doz. $2.0@2.25
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz. 75@$1.00
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal....
Grand.....
Grand Rapids.
Hall.....
Prize.....
Premier.....
Superior.....
} Cyclops Bearings ..₩ doz. $24.00 ..₩ doz. $36.00 ..₩ doz. $22.00 ..₩ doz. $60.00 ..₩ doz. $24.00 ..₩ doz. $24.00 ..₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $31.00
Furniture Protector, Japan.....₩ doz. $24.00
Furniture Protector, Nickel.....₩ doz. $27.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Housewife's Delight..₩ doz. $15.00
Parlor Queen, Jap....₩ doz. $24.00
Parlor Queen, Nickel, ₩ doz. $27.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $7.00
Little Queen.....₩ doz. $4.00
Misses.....₩ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent (Phœnix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—

American.....60&10%
Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—

American Coil, Ass'n cask prices.
3-16 ¼ 5-16 ⅜ 7-16 ½ ⅝ ¾
$5.50 4.10 3.10 2.75 2.70 2.50 2.35 2.25
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Cherry Stoners—

Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10&5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—

Box.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to £
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to £
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $3.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adju table, Stearns'.....30@30&10%
Cabinet Makers, Sargent's ...45&10%
Carpenters', Cincinnati .....25&10%
Carriage Makers', Sargent's..50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers.70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....20%
Barton's.....20@20&5%
Beatty's.....33⅓%
L. & L. J. White.....20@20&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40&10@50%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....35@35&10%

Counter Sinks—

Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....20%
Dixon's
Eclipse.....₩ gro. $3.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.81
Solid.....₩ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....20@30&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)..50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40&10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—

Champion (Coil)...60&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₩ doz $1.2@$1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix.....
New Haven.....
P. S. & W.....
Witherby.....
} 75& 10& 5%
Watrous.....30@30&10%
L. & L. J. White.....20&50&25%
Wilkinson's Folding.....35@35&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....40&10%

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Breast, Wilson's.....80&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓%
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....20@30&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....20&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ℔ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....℔ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral.....℔ gro. $4.35@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ℔ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $8.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5 c. ea., less 5 %
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ℔ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$3.00 ea., less 50%
Spark Coils, 10 pt $3.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 30c. ℔ lb. less 50%
Tube, Speaking, $31.00 ℔ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ℔ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ℔ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, CF FF.
Kegs, ℔ lb..4½c	5c	3½c	
½ kegs, ℔ lb.4½c	5½c	3½c	
¼ kegs, ℔ lb. 5c	5½c	3½c	
10 lb cans, 10 in case.... 6c	6½c	5½c	
10 lb cans, less than 10.. 10c	10c	8c	

Enameline—

No. 4, ℔ gro.....$4.50
No. 6, ℔ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1880.....60@60&5%

Farriers Knives—

"Challenge".....℔ doz. $3.00
Popes.....℔ doz. $3.00
Wilkinson's.....℔ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum.....60&10@70%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ℔ doz. $36.00.....40%
Lane's ℔ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over)	5.50	6.50	7.00
Dairy Pails, 14 qt.	3.30	3.80	4.30
Fire Pails, 14 qt., stenciled "fire"	3.40		
Fruit Bowls	1.20	1.70	2.00
Keelers, 11½ inch	2.30	2.80	3.10
Milk Pans	1.50	2.00	2.20
Mats, 8½ inch (for table use)	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover)	6.50		
Pitchers, 10½ in. high	4.00	4.70	5.20
Peck Measures	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt.	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers)	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers)	4.00	4.80	5.30
Water Pails, 12 qt.	$3.00	$3.50	$4.00
Waste Paper Jars	3.00	4.00	4.50
Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)	1.20	1.70	2.00
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls,	2.30	2.90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00; No. 2, $2.50; No. 3, $1.50; No. 4, $1.00 ℔ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (50c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No.	0	1	2	3	4
℔ doz.	$2.00	$2.75	$4.25	$4.75	$5.25
No.	5	6	7	8	
℔ doz.	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....℔ doz. $2.50
In lots of 3 doz.....℔ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓&5%
Clapboard.....20%
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ℔ doz $2.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ℔ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ℔ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....℔ gr. $1.50
Assorted 2 and 3.....℔ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets:
Assorted 1, 2 and 3.....℔ gr. $3.00
Assorted 2 and 3.....℔ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....45@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....20%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....℔ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'95 List.....60&20%
Upson & Woodin.....40%
Wright's Animal Tether.....80%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail.....40&7½&5%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½&5%
Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..25&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb....℔ lb 40c
3 to 5 lb.....℔ lb 35c } 75@80%
Over 5 lb.....℔ lb 30c }
Wilkinson's Smiths....9½c@10c℔ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%

Door or Thumb:

Nos.	0	1	2	3	4
Per doz.	$ .90	1.00	1.05	1.35	1.50

50&10@60%

Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.62
Japanned, with Plate.....$1.10
Japanned, without Plate.....&c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60&10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....℔ gr. $2.25@2.50
Auger, large.....℔ gr. $3.00@3.25
Auger, Douglass', Pat. ℔ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10%
No. 2 to 33⅓.....40%
Auger, Swan's, Pat. ℔ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....℔ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....℔ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ℔ gr. $2.25@2.50
Firmer Chisel, Apple large ℔ gr. $2.75@3.00
Firmer Chisel, Hickory ass'd ℔ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ℔ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ℔ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....60&2%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles. 50c.60%
Champion.....45@45&10%
Sensible.....℔ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $36.00.....60&10&10%
Cronk's Steel cov'd Loose Axle. 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6 &5%
New Model.....4 &10%
Parlor, Standard.....4 &10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $18.00, ℔ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....(0&10%
Climax.....5%
Interstate.....60&15%
Magic.....50%
Matchless Covered.....60&10%
Wild West.....50%
Zenith.....55%
Baggage Car Door.....33⅓%
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&2½%
Warner's Pat.....30&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ℔ doz.....40&10%
Wrought.....85&10@85&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $5.00@$5.85
Wadsworth's ..... 40&5@40&7½&5

Hedge Shears—
Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T..75@75&5%
Rolled Blind Hinges Nos. 33 and 34 60&10@50&10&5%
Rolled Plate, Rolled Raised ..... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb. 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb. 3½c; 14 to 20 in., ₩ lb. 2½c; 22 to 36 in., ₩ lb. 2c
Strap and T..... 70@75&5%

SPRING HINGES—
Acme ..... 30@10%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts..40%
Gem ..... 30&10%
Keil's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $13.00
Oxford ..... 30&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double.60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 35%
Wiles' No. 1, ₩ gr., $13.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E...₩ doz $7.50 ..... 50@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State..₩ doz $4.90..60@60&10%
Reed's Latch and Hinges...₩ doz $12.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3..60&10@60&10&5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 80&10%
Nos. 40 and 50 ..... 8%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13 ..... 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 60&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 80& 0 &5%
Champion Gravity Locking, No. 7a ..... 60&10&10%
1838, Old Pat'n, Nos. 1, 3 and 5, 60&10%
Tip Pattern, Nos. 1, 3 and 5, 60 &10&5%
Double Locking, Nos. 20 and 25..75%
Empire, Nos. 10 and 10½ 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80 &10%
Noiseless, Nos 50, 60, 65 and 65..80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, N s. 060, 45 and 5½..75&5%
Steam oat Gravity Locking, No. 10 ..... 80&10&5%
St nger's Noise'ess 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.20 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy..₩ doz. $4.50 net
Cotton ..... 30&12½&5
Dunlap's Boys', Ladies', Toy..... 30%
Garden ..... 75&20%
Mortar ..... 75&20%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe... ....₩ doz. $3.75 net
Planter's ..... 60&15%
Texas Cut-Easy ..... ₩ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes..$3.00@$3.25
Ringers ..... ₩ doz. 50@75c
Perfect Rings ..... ₩ gro. $7.00@$7.50
Perfect Ringers ..... ₩ doz. 3.c

Hollow Ware—

IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware..70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 10&10%
White-Ware ..... 30&10%

STOVE HOLLOW WARE:—
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans..62½@65%
Maslin Kettles..75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—

BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list...60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list...50&10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list...50@60&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme...60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard.... 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works: Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 35%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4½c

Horse Nails—

	Nos. 6	7	8	9	10
Northw't'n	25c	25c	25c	21c	20c.

25@25&5%

Putnam	25c	21c	20c	19c	18c. 25%
Snowden	9½c	9½c	9½c	9½c	9½c., net
Vulcan	25c	21c	20c	19c	18c. 25%
Western, 5 to 10d					9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 60&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick....₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20..25%
No. 34 ..... ₩ doz. $15.00..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives, ₩ doz. $1.50...20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Bd'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel...₩ doz..$1.70@1.80
Drawer, Porcelain..60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.50
No. 200 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L ..... 70&10%
Styles A., and E ..... 60&10%
Styles, D., D. O. W., M., S., T.. Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 35%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co. Philadelphia Lawn Sprinkler:
No. 1, ₩ doz. $12.00
No. 2, ₩ doz. $15.00
No. 3, ₩ doz. $24.00..35%

Lemon Squeezers—
Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40 ..... 30%
Dean's, Nos. 1, ₩ doz. $3.50; 2, $3.35; 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 ..... 30%
Hotchkiss, Straight Flush ₩ doz. $3.60
Jennings' Star...₩ doz. $1.90@$2.00
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood....₩ doz. $3.00 ..... 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 25&10%
Iron Bench, new design....25&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's..50%
Cotton Chalk, 50 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 35%
Samson, Cotton, No. 4, $3; No. 4½, $3.50 ..... 10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 35%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 30%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 60&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 20&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co.'s: Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 23 to 30 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 35%
Stoddard Lock Co ..... 30@35&5%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@40&10%
Champion 40%
A. E. Dietz 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 3½ ..... 40&5%
Scandinavian ..... 30&40@30&40&10%
Smith & Egge Bicycle 30%
Wrought Iron ..... 75@30%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 35%
Eagle 35%

Mallets—
Sargent's List
Hickory ..... 50@35&10%
Lignumvitæ ..... 50@35&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters—
American.....30%
Nos....1 2 3 4 5
Each..$5 $7 $10 $35 $50 $60
Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00
Dixon's.....₩ doz 33⅓%
Nos.....1 2 3 4
$14 $17 $19 $50
Enterprise.....25%
Nos.....10 12 22 33 42
Each...$6 $6.50 $4 $6 $15
Hales Pattern ₩ doz.....70@70&5%
Nos.....11 12 13
$27 $33 $45
Home No. 1..₩ doz $36.....60%
Little Giant.....50&10%
Nos. 305 310 312 330 333
$35 $43 $44 $72 $88
Miles' Challenge ₩ doz...45@45&10%
Nos.....1 2 3
$33 $50 $40
Perfection.....net
Woodruff's ₩ doz.....33⅓%
Nos.....100 150
$15 $18

Metals, Anti-Friction—
Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name.....₩ lb..18c
Mystic.....₩ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—
Enterprise.....20%

Mop Wringers—
Matchless (Canton, O.), ₩ doz.$13.00

Nails—
WIRE AND CUT NAILS—
See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1892.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....80%
Wire Nails.....80%
PICTURE—
Brass Head. Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list, 40&10%
Porcelain Head, Sargent's list, 50& 10%
FURNITURE—
Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—
Black Hawk, per doz.....$9.00
Giant. No. 1, ₩ doz $18.00: No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....₩ doz $18.00, 20%
National.....40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—
Buck Bros.....27½%
Cannon's Diam'd Point ₩ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—
Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—
Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—
Cold Punched, Square, off list. $5 90
Hex, off list.....$6.30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—
Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—
OIL STONES—
Pikes Washita:
Lilly White, ₩ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ lb..... .50
No. 1..... .40
No. 2..... .30
Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2⅝ to ⅝ at back, ⅛ to 5-16 edge ₩ lb:
Lilly White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ₩ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ₩ doz.....$12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼, " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x¾ to 1¼, ₩ lb..... .34
" 2x2x¾, extra selected.. .40
Discount 33⅓%.

Packing, Steam—
RUBBER—
Boston Belting Co.:
"Boston".....50%
"Excelsior" Self-Vulcanizing, per lb 70c.....40%
Boston "Phoenix" Red Sheet, per lb.....60c. net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%
MISCELLANEOUS—
American Packing.....9c@10c ₩ lb
Cotton Packing.....14c@15c ₩ lb
Italian Packing.....12c@14c ₩ lb
Jute.....6c@7c ₩ lb
Russian Packing.....13c@14c ₩ lb

Padlocks—
See Locks.

Parers—
APPLE—
Advance.....₩ doz $4.50
Baldwin.....₩ doz 5.00
Bonanza.....each 5.00
Daisy.....₩ doz 3.50
Dandy.....each 7.50
Eureka, 1898.....each 16.00
Family Bay State.....₩ doz 12.00
Favorite.....₩ doz 5.00
Gold Medal.....₩ doz 4.00
Ideal.....₩ doz 4.00
Improved Bay State.₩ dz..$27@30.00
Little Star.....₩ doz 4.00
Monarch.....₩ doz 12.50
New Lightning.....₩ doz 5.50
Oriole.....₩ doz 4.00
Penn.....₩ doz 3.00
Perfection.....₩ doz 4.00
Pomona.....₩ doz 4.00
Reading, 75.....₩ doz 4.00
Reading, 78.....₩ doz 7.00
Rocking Table.....₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable.....₩ doz 4.50
Victor.....₩ doz 12.50
Waverly.....₩ doz 3.75
White Mountain.....₩ doz 4.00
POTATO—
Antrim Combination....₩ doz 5.50
Hoosier.....₩ doz 12.50
Saratoga.....₩ doz 5.50
White Mountain.....₩ doz $4.50

Pencils—
Dixon's:
Carpenters'.....₩ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....₩ gro. 9.00
Lead.....₩ gro $4.20
Lumber.....₩ gro. 6.87
Mascot, Hexagon.....₩ gro. 3.38
Mascot, Round.....₩ gro. 3.10

Picks—
Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—
WOOD PLANES—
Bailey's (Stanley R. & L. Co.) 60&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%
IRON PLANES—
Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting..... 25%
C. E. Jennings & Co., Iron.....5&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's...50&10&10@50&10&10&5%
Miscellaneous.....35&10%
Steer's Iron Planes..50&10@50&10&5
PLANE IRONS—
Auburn "Thistle"..... Ohio..... Sandusky..... 60&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to £
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....60&10%
L. & L. J. White.....30&5@25%

Pliers and Nippers—
Button's.....70&10@70&10&5%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....20%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 5% dis. 10%

Plumbs and Levels—
Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's.....75&10&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—
See Egg Poachers.

Police Goods—
J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $35.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—
Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—
Dixon's Plumbago.....₩ lb 8c
Joseph Dixon's.....₩ gro $5.75, 10%
Gem.....₩ gro $4.50, 10%
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Poppers, Corn—
Round or square,
1 qt., ₩ doz. $.75; ₩ gr. $6.50 } 10@
1½ qt. ₩ doz. $.85; ₩ gr. $8.00 } 15%
2 qt., ₩ doz. $1.15; ₩ gr. $13.00 }
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—
Ryan's.....₩ doz., $20.00, 25%

Powder—
See Ammunition

Presses—
See Fruit and Jelly Presses.

Pruning Hooks and Shears—
Cronk's Pruning Shears.....33⅓%
Disston's Combined Pruning Hook and Saw...₩ doz $13.00, 25@25&10%
Disston's Pruning Hook....₩ doz $13.00, 25@25&10%
Dunlap's Saw and Chisel....₩ doz $3.50, 30%
Henry's Pruning Shears ₩ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools. 40%
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$3.50@$3.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $12.00, 25&10%

Pulleys
Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@10&60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $6.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side. Anti-Friction.....50%
Shade Rack.....45%
Upright.....60&10@50&10&10%

Pumps—
Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@8.%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 336, 3 in. Shallow Well Pump.....$13.00
No. 3, Fig. 338, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig. 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14, Fig. 321, 3 in. Deep or Shallow Well Pump.....$15.00
No. 33, Fig. 336, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 333, 3½ in. Shallow Well Pump.....$17.00
No. 70, Fig. 333, 3½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 443, 3 in. Lift Pump.....$10.00
No. 103, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 126, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 225, Fig. 389, Windmill Pump.....$12.50
No. 230, Fig. 403, Windmill Pump.....$12.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 405, Regulator Pump.....$20.00
No. 250 Fig. 434, Imperial Cyclone Pump.....$18.00
No. 255, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 488, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 308, Fig. 477, Spray Pump complete.....$11.50
No. 330. Fig. 493, Bucket Spray Pump.....$5.50
No. 333, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—
Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@55%
Check.....55%
Spring.....50&55%
Springfield Socket.....60%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..50@55%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—
Barn Door, Light, In. ½ ⅝ ¾
Per 100 feet.....$1.40 1.65 1.80
Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet..$1.60 2.00 2.50
Carrier Steel Rail, ₩ foot.....4¼c
Cronk's:
Competition.....₩ foot, 2¼c
Common.....₩ foot, 2¼c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $2.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted...₩ ft 3c
Sliding Door, Wr't Brass, 1¼ in. ₩ lb, 35c.....60&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot, 60&10&2½%

Rakes—
Cast Steel, Association goods. 75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.20
Boss, Garden, 18 teeth, net ₩ doz. $2.75
Canton Lawn Rake...₩ doz. $2.50
Crown Lawn, No. 1....₩ doz. $2.50
Hustler, No. 0.....₩ doz. $2.20
Lawn Rake.....₩ doz. $4.75
Malleable.....70&10@75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—
Electric.....List net
J. R. Torrey Razor Co.....30%
Wostenholm and Butcher, $10.00 to £.....10%

Registers—
Stowell's:
Japanned.....80&10%
Nickel-plated.....75&10%
HOT AIR—
Ferrosteel Japanned.....80&10%
Ferrosteel, Nickelplated.....75&10%

Rings—
See Bull and Hog Rings.

Rivets and Burrs—
American Screw Co.:
Bay State Rivets.....75&5%
Burrs.....75%
Soft Steel.....80%
Copper.....60&10&5@60&10&10%
Norway, list Feb. 28, '96.....70%

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Rivet Sets—

Regular list ..... 70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door..... 50%
Adjustable Stay..₩ dos. $1.00 net
Screw Stay.....& doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....₩ ℔ 13 @14c
Medium, ¼ in. and larger.....₩ ℔ 10 @12c
Common, ¼ in. and larger.....₩ ℔ 8½@10c
Jute Rope.....₩ ℔ 5½@5½c
Manila:
7-16 in. and larger.....₩ ℔ 5¾c
⅜ in.....₩ ℔ 6¼c
⅛ and 5-16 in.....₩ ℔ 6¾c
Hay Rope, Med.....₩ ℔ 5¾c
Sisal, ½ in.....₩ ℔ 5½c
¼ and 5-16 in.....₩ ℔ 5¾c
7-16 in. & larger.....₩ ℔ 4¾c
Med. L'th Y'rn.....₩ ℔ 4¼c
Hay Rope.....₩ ℔ 4¼c

Rules—

Athol, Steel..... 33⅓%
Boxwood..30&10&10&10@30&10&10&10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel..... 55%
Lumber..... 50&10%
Miscellaneous, Stanley's..... 60%
Starrett's Rules and Straight Edges, Steel..... 25&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¼c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, ₩ doz..... $7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz..... $7.00
No. E 55, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.00
No. E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz $8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $5.25
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.50
No. E 60, nickel-plated, size 4, without handles, ₩ doz..... $6 50
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz..... $7.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 65, plain polished, size 4, with "best" handles..... $8.50
No. E 65, plain polished, size 4, without handles $5.50
The "Best" Handles, with Forged Iron Stretchers, ₩ doz..... $3.00
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $22.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 3@3¼c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth..... 50&10@60%
Garnet Paper..... 30@ [illegible]
Sand and Emery Paper..50&10@60%

Sash Chain—

Giant..... 40%
Monarch..... 50%
Red Metal..... 40&10&10%
Steel..... 40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@9c
Common Russia Sash.₩ ℔ 12½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 38c
"Samson" Braided Linen,₩ ℔ 56c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White,₩ ℔ 50c. 35@40%
B Quality, Drab,₩ ℔ 35c..... 15@15&7½%
B Quality, White ₩ ℔ 30c..... 15@15&7½%
White Cotton Braided, ₩ ℔ 21c@22c

Sash Fasteners, Holders, &c.—

Sash Lifts..... 60&10&10%
Sash Lifts Flush..... 70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers..... 70%
Shutter Bars.....60&10@70%
Shutter Sheaves..... 60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect..... 70%
Reading .....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....30%
Enterprise Mfg. Co..... 25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band..... 50&10%
Butcher, Pruning and Compass..... 40&10%
Circular..... 50&10%
Cross Cut..... 40&10%
Gang..... 50&10%
Hand..... 40&10%
Wood..... 40&10%
Disston's:
Circular..... 45@50%
Cross Cuts..... 40&10%
Gang..... 45%
Panel, Hand & Rip..... 25%
Haines' Needle Point..... 40%
C. E. Jennings & Co.'s:
Butcher..... 30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts..... 45&10%
Hand Panel and Rip..... 25&10%
Richardson:
Circular and Mill..... 45&10%
X Cuts..... 45&10%
Hand-saws..... 25&10%
Star, Butcher..... 25%
Woodrough & McParlin Cross Cuts..... 45&10%

HACK SAWS AND FRAMES—

Chatillon..... 30%
Griffin's:
Complete'..... 40&10%
Saw Blades..... 40&10@50%
Star, Saws and Blades..... 25%

Saw Frames—

C. E. Jennings & Co..... 20%
Red, Polished and Varnished...₩ doz., $1.00@$1.10
Richardson's Wood..... net
White Vermont..₩ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets, ₩ doz.....$6.00
Excelsior Saw Tools ₩ dos.....$6.00
Bemis & Call Co.'s:
Cross Cut..... 30&5%
Hammer, New Pat..... 45%
Plate..... 20%
Spring Hammer..... 30&5%
Disston's Star..... 25@25&10%
Hart's Pat. Lever..... 20%
Kohler's:
"Giant Royal".....₩ dos. $10.00
"Royal".....₩ doz $6.00
Leach's..... 33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00..... 40&20%
Cross-cuts Nos. 3 and 4, $28.00; No. 5, $31.00..... 40&20%
Richardson's 25%
Seymour Smith & Son, Hammer, ₩ doz..... $4.75
Stillman's ₩ dos..... $1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka..... 25%
Favorite..... 40%
Grocers' Trip Scales..... 50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@ $18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$2.00@$2.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1..... 40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '92..50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00..... 40&10%
Box, 1 Handle.....₩ doz., $3.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@50&5%
Ship Common.....₩ dos., $2.40 net
Ship, R. I. Tool. Co..... 10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension ..... 50&10&5%
Flyer..... 50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens..... 50%

Screen Doors—

Phillips:
Empire Fancy.....30&35%
Fancy Pine..... 15%
Painted..... 50&5%
Stained..... 50&10%
Standard Oil..... 35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros..... 30%
Screw-Drivers Bits.....27½%
Champion..... 40&10%
Disston's..... 5@50c.,10
Pat. Excelsior..... 5&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 2, $12.50%
Howard-Allard .....50&10&10%
C. E. Jennings & Co..... 40&10%
Jennings & Griffin..... 65&10%
Wm. Johnson's:
105 A..... 70&10%
135½ Extra..... 70%
138 Ebonized Handle..... 70%
141½..... 75%
142 Ebonized Handle..... 70%
Sargent & Co.'s:
No. 1 Forg. Blade.60&10@50&10&5%
Nos. 20 and 40 .....50@50&10%
Screw-Driver Bits....₩ dos., 50@75c
Screw-Driver Bits, Parr's₩ gro.$6.25
N. E. Specialty Co.'s..... 50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 86..... 75&10%
Tower & Lyon:
Champion..... 33⅓%
"Handy" Ratchet..... 25%
Williamson's:
Beauty, ₩ dos.....$1.00 } 40%
Gem, ₩ dos.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head..... 90%
Brass, Round Head..... 85%
Bronze, Flat Head..... 87½%
Bronze, Round Head..... 85%
Copper, Flat Head..... 65%
Copper, Round Head..... 60%
Drive Screws..... 90%
Iron, Bright Flat Head..... 90%
Iron, Br't R'd & Oval Head..... 85%
Iron, Forged Flat Head..... 90%
Nickel Plated, Flat Head..... 80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head..... 60%
Phosphor Bronze, Round Head..55%
Silver Plated, Flat Head..... 60%
Silver Plated, Round Head..... 60%

MACHINE—

Brass, Flat Head..... 45%
Brass, Round Head..... 40%
Iron, Flat Head..... 45%
Iron, Round Head..... 40%

BENCH, HAND, ETC.—

Bench, Iron, ₩ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech.₩ doz $2.00@2.20
Chair..... 60&10%
Coach..... 82½%
Hand Rail Am. Screw Co..... 82½%
Hand Rail, H. & B. Mfg. Co..... 80%
Hand Rail, Sargent's. ...70@70&10%
Hand, Wood..... 30&10@40%
Jack Screws, Millers Falls, Roller Bearing..... 50&10%
Jack Screws, Millers Falls, without Roller Bearing..... 50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's..... 75%
Jack Screws, Stearns'..... 40&10%
Lag Blunt Point, list Jan. 1, 1890. 75&20@30&10%
Piano Stool..... 60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15..... 25%
Barnes Scroll Saw Blades..... 40%
Cricket..... 10&10%
C. E. Jennings & Co..... 20%
Lester, complete, $10.00..... 15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain..... 50&10%
Grass..... 50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise..... 25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, ₩ Set.....$1.25
Surrey, No. 9, ₩ Set..... $2.60

Shears—

Acme (Cast)..... 40@40&5%
Ætna, Steel Japanned..... 50&10%
Ætna, Steel Nickeled..... 70&30%
Barnard's Lamp Trim'rs.₩ dos.$3.75
Clauss:
Nickel..... 60%
Japanned..... 70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears..... 30&10@40%
Pruning, See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1891. 60&10@60&10&10%
Wiss & Sons:
Japanned..... 70%
Nickeled..... 60%
Tailors' Shears..... 60&10%
Tin Snips..... 45%

Sheaves—

SLIDING DOOR—

Corbin's list..... 60&10&5%
Hatfield's Pattern.....70&10@80%
M.W. Co., list July, 1897..60&10@65&10&5%
Stowell's Anti-Friction..... 50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895 ..... 60&5%

SLIDING SHUTTER—

Reading list..... 60%
R. & E. Mfg. Co.'s..... 60@60&10%
Sargent's list..... 60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb's..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@$3 40
Perkins Improved Snow.....₩ ℔ 4c

MULE—

Add 50c ₩ keg to above prices.

OX, WROUGHT—

Ton lots.....₩ ℔ 9c
1000 ℔ lots.....₩ ℔ 9½c
500 ℔ lots.....₩ ℔ 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel..... 5%
Bouve's Steel 10%
Carter's Cast Steel..... 5%
Sanderson's Cast Steel..... 5%
Stone's Cast Steel..... 5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, ₩ gross, $10@11.50

Skate Sharpeners—

Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—

Enterprise..... 25%
Enterprise Mfg. Co..... 20%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro. $20.0 @$22/ 00
Kraut Cutters.....50@50&10%
Woodrough & McParlin..... 40%

Slicers—

Vegetable, Enterprise..... 25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co)..... 65%
Cockeye..... 70&10%
Covert Mfg. Co..... 45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol)..... 50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring..... 60&10%
Open Spring,..... 70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓%
Wood.....₩ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Can. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&2½
Solid Table and Tea, Can. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros. 40&12½
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
12½ Rogers' German Silver...60&5%
25% Rogers' Nickel Silver....60&5%
Rogers' Silver Metal.....50&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&1 &10%
Steel and Iron.. }

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₩ lb.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....25%
Reece's New Screw Plates.... 25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&2.@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....8%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....8%
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2.00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks.₩ gr $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks...₩ gr. $4 50
Miniature Keg Tacks..66⅔&33⅓& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " 1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....30@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@60%
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.:
IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).30&2%
Snips, J. Mallinson & Co.....33⅓%
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓%
Prentiss'.....20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 423, ₩ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ₩ doz.....$3.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz.. .....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch. ₩ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each.....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent.....7.@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3 3 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....80&10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole.....15%
Rare Rat.....40@40&10%
Housenold.....₩ gr $10.00
Hotchkiss:
Metallic Mouse,.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross, $12.50
Mouse, Bonanza....₩ doz 90c@$1.00
Mouse, Catch-'em-alive ₩ doz $2.50.15%
Mouse, Delusion..... 40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire.₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz noles 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $13.50; No. 2 ₩ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00

FLY-

Balloon, ₩ doz $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓%
Disston's:
Brick.....8%
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....8.@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....35&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action.....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....7.&10%
Simpson's Adjustable.....5%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3, $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..5%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel.....30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ₩ gross. $3.50@$12.00
American Whip Co.: List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $23.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft $10.50; 6½ ft., $12.00; 7 ft., $13.50 7½ ft., $15.00; 8 ft., 16.50.
Americus, 9s Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 ft., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $10.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 108, 6 ft.....$5.0
Hand-Made Stocked Java, No. 108.....5½ ft., $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....₩ doz $2.0 @$7 50
True Grip, Raw Hide Center, 4½ ft.. $5.0; 5 ft., $6.00; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.50; 7 ft. $9.00.

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

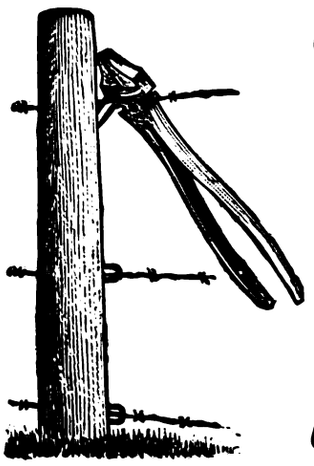
Window Stop Adjusters—

Taplin,s "Perfection".....10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 35&10@35&10&10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@7 &10&5%
Galv., Nos. 0 to 18.75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$5.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

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CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

NORTH, SOUTH, EAST, WEST.

— FROM ALL POINTS COME —

ARMATURES, GENERATORS, DYNAMOS, MOTORS, TRANSFORMERS, **Which We Repair** . . . AND MAKE

GOOD AS NEW.

Write us for Estimates on your work. | **We Pay the Freight One Way.**

The W. H. Elliott Electric Co., General Electrical Repairers. Fourteen Years' Practical Experience.

14, 16 and 18 Middle Street, Cleveland, Ohio, U. S. A.

PLEASED with RESULTS.

John N. Hager, Fort Atkinson, Wis. [*Fork, Shovel, Rake and Hoe Brackets*]: Am well pleased with the results of my advertisement in HARDWARE.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..30&10@30&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....2½&2½&2% cash
Iron.....30&2½&2% cash
Iron, Galvanized..30&2½&2% cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Acme:
Bright.....60@60&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....30@30&10%
Aiken's Pocket (Bright)..$2.00@3.20
Alligator.....60@60&10%
Always Ready.....33⅓&25@40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....60&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Lag Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....20%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894.
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels, ₩ gallon.....37c
Linseed, City, Boiled, in barrels ₩ gallon.....39c
Out of Town on Spot..₩ gal.....37c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 39@40c
Western, Prime.....37@38c
Extra, No. 1.....31@32c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ℔.....5c
White Lead, American, in Oil, ₩ ℔.....5½@6c
White Lead, Foreign, in Oil, ₩ ℔ 8@8½c
Litharge, Kegs, ₩ ℔.....5½c
Zinc, American, Dry, ₩ ℔....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@—c
In machine bbls.....35@—c

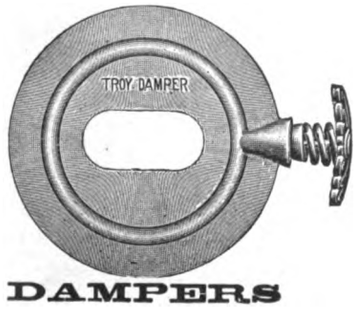
Dry Colors—

Blue, Chinese.....₩ ℔ 37 @40
Blue, Prussian.....₩ ℔ 30 @35
Blue, Ultramarine..₩ ℔ 8 @25
Sienna, Italian, burnt & powd red ₩ ℔ 3½@5 c
Sienna, Italian, raw & powdered...₩ ℔ 3 @4½c
Umber, Turkey, burnt.....₩ ℔ 2½@3½c
Umber, Turkey, raw.....₩ ℔ 2½@3 c
Green, Chrome, Common.....₩ ℔ 5 @12 c
Green, Paris, in bulk, ₩ ℔ 11½@12½c
Indian Red, American.....₩ ℔ 2 @3 c
Indian Red, English.....₩ ℔ 4½@8

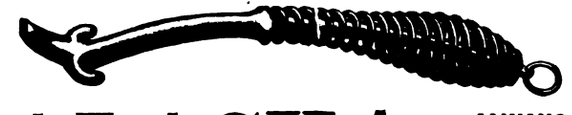
Colors in Oil—

Black Coach Japan ₩ ℔..18½@20
Black Coach Japan, in Oil.....₩ ℔ 12 @13 c
Black Drop.....₩ ℔ 7 @10 c
Black Lampblack...₩ ℔ 20 @33 c
Black Lampblack, common.....₩ ℔ 7@15 c
Blue, Chinese.....₩ ℔ 35 @40 c
Blue, Prussian.....₩ ℔ 20 @40 c
Blue, Ultramarine..₩ ℔ 12 @18 c
Brown, Sienna, bur't ₩ ℔ 8 @12 c
Brown, Sienna, raw. ₩ ℔ 8 @13 c
Umber, burnt.....₩ ℔ 7 @10 c
Umber raw.....₩ ℔ 7 @10 c
Brown, Vandyke....₩ ℔ 7 @12 c

PIPE



DAMPERS



ALASKA, ALWAYS COLD.



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POKERS,
SHOVELS,
FIRE SETS.

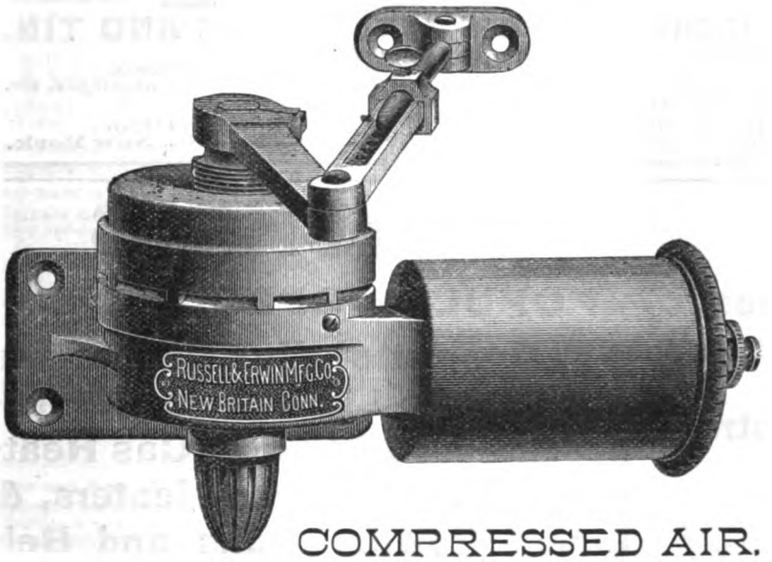
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COLUMBIA PNEUMATIC DOOR CHECK AND SPRING.



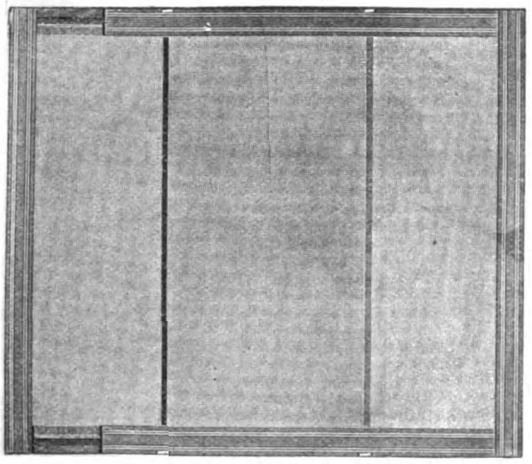
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There may be

"A HOT TIME IN THE OLD TOWN TO-NIGHT"

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To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted]

and TWENTY-FIVE CARBON Steel will last only so long [redacted]

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory coroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

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Miner & Peck Mfg. Co., New Haven, Conn
Arthur M. Robertson, Boston.
The Scranton & Co, New Haven, Conn.
Troy Nickel Works, Albany, N.Y.

Handles
Berger Bros., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio
Geo. S. Parkes & Co., Nashville, Tenn.
Russell & Erwin Mfg. Co., New York.

Hangers.
Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.
Cronk Hanger Co., Elmira, N Y

Hangers, Door.
Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N.Y.
McCabe Mfg. Co., New York.
McKinney Mfg. Co., Allegheny, Pa.
Stilwell Mfg. & Fdry. Co. South Milwaukee, Wis
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.
Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.
Arcade Mfg. Co., Freeport, Ill.
Berger Bros., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles, Plainville, Conn.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
"Foreign," New York.
Griswold Mfg. Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
North Bros. Mfg. Co., Philadelphia.
Charles Morrill, New York.
Patterson, Parral & Gray, N. Y.
Pelouse Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Charles Weiland, New York.
T. F. Welch & Co., Boston.

Harness Snaps.
Covert Mfg. Co., West Troy, N. Y.
Ira F. White & Son, New York.

Hasps.
McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.
F. E. Myers & Bro., Ashland, O.

Hay Forks.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.
E. T. Barnum, Detroit, Mich.

Heaters.
Bradley & Hubbard Mfg. Co. Meriden, Conn.
C. K. Morse Heater Mfg. Co. Norwalk O.
Edward Miller & Co., Meriden, Conn.

Hinges.
Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hitching Posts.
Ohio Metal Co., Norwalk, Ohio.

Hones, Razor.
Alfred Field & Co., New York.
Pike Mfg. Co., Pike Station, N. H.

Hoisting Machinery.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.

Horse Nails.
Ausable Horse Nail Co, New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.
F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.
Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus.
Bramhall Deane Co, New York.

Ice Tools.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.

Ice Cream Freezers.
John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.
Mutual Life Insurance Co. New York.

Iron.
Bruce & Cook, New York.

Iron Castings.
C. H. Angus, Albany, N. Y.

Iron, Perforated.
Harrington & King Perforating Co., Chicago.

Jail Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.
C. H. Angus, Albany, N. Y.

Kitchen Sinks.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.
National Saw Co., Newark, N. J.

Ladders.
Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.
Plume & Atwood Mfg. Co., New York.

Lanterns.
Buhl Stamping Co., Detroit, Mich.

Lathes.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.
George Hayes, New York.

Lawn Fountains.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.
Enterprise Mfg. Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lead.
Bruce & Cook, New York.
Colwell Lead Co. New York.

Lead Pencils.
Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.
Berger Bro., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.
Tower & Lyon, New York.

Locks and Knobs.
Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.
A. Adamson, Akron, Ohio.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.

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Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Vieillard & Osswald, Brooklyn, N. Y.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.
C. H. Angus, Albany, N. Y.
T. F. Welch & Co., Boston.

Mail Boxes.
W. C. Heller & Co., Montclair, N. J.

Mallets.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.
Fulton Stamp Works, New York.

Masons' Lines.
Samson Cordage Works, Boston.

Meat Choppers.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.
New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.
C. H. Angus, Albany, N. Y.

Metals, Perforated.
Harrington & King Perforating Co., Chicago.

Metallic Paint.
Bruce & Cook, New York.

Metal Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.
Meyers' Puts Pomade Co., Boston.

Milk Cans.
Buhl Stamping Co., Detroit, Mich.

Mincing Knives.
Enterprise Mfg. Co., Philadelphia.

Mining Screens.
Harrington & King Perforating Co., Chicago.

Mirrors, Window.
Bayer & Co., Philadelphia.

Model Making.
Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mops.
Matchless Mop Wringer Co., Canton, Ohio.

Mop Wringers.
Matchless Mop Wringer Co., Canton, Ohio.

Motors.
W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.
A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York.
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Chapman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Edward Miller & Co., Meriden, Conn.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
William Connors, Troy, N. Y.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Photo-Engraving.
Otto Neuburg, New York.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Poles.
Geo. S. Parkes & Co., Nashville, Tenn.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
Meyers' Puts Pomade Co., Boston.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Miner & Peck Mfg. Co., New Haven, Ct.
Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Hess Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
F. J. Mattison, New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges
Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Rat and Mouse Traps.
See Traps.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia

Reels.
Hartzell Novelty Works, Alliance, Ohio.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
Union Nut & Bolt Co., New York.

Rollers.
Fulton Machine Co., Canal Fulton, O.

Roller Skates.
Tower & Lyon, New York.
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Berver, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
Underhill, Clinch & Co., New York.

Scrapers, Wheel.
Sidney Steel Scraper Co., Sidney, O.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York.
Tuca Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess Snyder & Co., Massillon, O.
Geo. S. Parkes & Co., Nashville, Tenn.

Shears and Scissors.
Alfred Field & Co., New York.
H. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

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Sheet Brass.
Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York.

Spark Guards.
Edward Darby & Sons, Philadelphia.
Dow Wire Works, Louisville, Ky.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spokes.
Geo. S. Parkes & Co., Nashville, Tenn.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welsh & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Stencils.
Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Hoffman, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Stove Mittens.
Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J
J. L. Prescott & Co., New York.

Stove Trimmings.
Troy Nickel Works, Troy, N. Y.
Logan & Strobridge Iron Co., New Brighton, Pa.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co., Cleveland, O.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

Structural Iron Work.
Stewart Iron Works, Cin'nati, O.

Tackle Blocks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.

Tailors' Irons.
Union Heater Supply Co, Detroit, Mich.

Tape Measures.
Alfred Field & Co., New York.
Waterbury Brass Co., New York.

Taps and Dies.
Holroyd & Co., Waterford, N. Y.

Targets.
Cleveland Target Co., Cleveland, Ohio.

Tiling.
New York Belting & Packing Co., Ltd., New York.

Tinning.
C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

Tin-Plate.
Bruce & Cook, New York.

Tires Rubber.
New York Belting & Packing Co., New York.

Toilet Paper.
A. P. W. Paper Co., Albany, N. Y.

Tools.
Armstrong Mfg. Co., Bridgeport, Conn.
E. C. Atkins & Co., Indianapolis, Ind.
Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Th. M. Hass, New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg Co., New York, Cincinnati, Chicago, Kansas City.

Traps.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.

Trowels.
E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.
Boston & Lockport Block Co., Lockport N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.

Tubes, Seamless Drawn.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.

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Berger Bros., Philadelphia.
Kendrick Valve & Washer Co., Syracuse, N. Y.
F. E. Myers & Bro., Ashland Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Vises.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Howard Iron Works, Buffalo, N. Y.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.
Sprague Umbrella Co., Norwalk, Ohio.

Washers.
Clark & Cowles, Plainville, Conn.
Kendrick Valve & Washer Co. Syracuse, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Union Nut & Bolt Co., New York.

Washing Machines.
W. C. Harrison & Co., Massillon, Ohio.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.
E. O. Hausburg, New York.
E. Imhauser, New York.
Nans & Co., New York.

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T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Weather Strips.
Novelty Mfg. Co., Canton, Ohio.

Wheelbarrows.
Akron Cultivator Co., Akron, O.
Arnold Metal Wheel Co., New London, Ohio.
Bryan Mfg. Co., Bryan, Ohio.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

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Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.
Samson Cordage Works, Boston.

Window Screens.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

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Taplin Mfg. Co., Forrestville, Ct.

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Dunbar Bros., Bristol, Conn.
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The Manila & Co., Cleveland, Ohio.
Waterbury Brass Co., New York.
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Clinton Wire Cloth Co., Clinton Mass.
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Coes Wrench Co., Worcester, Mass.
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John H. Graham & Co., New York.
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Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

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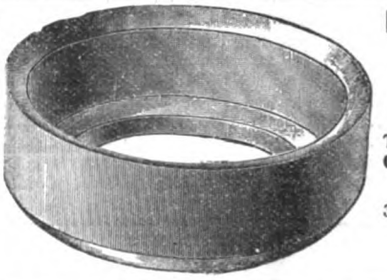
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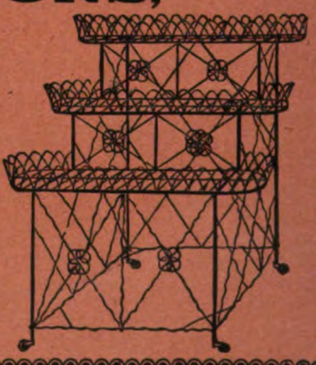
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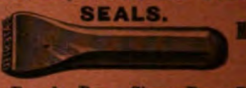
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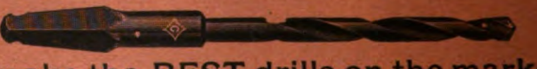


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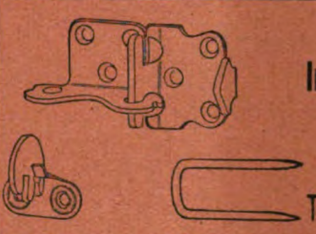


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WHAT EVERY SPORTSMAN SHOULD USE.
PAGE 49.

S. S. Patterson. Francis Harral. Walter R. Gray
THE LEADING JOBBERS OF BARGAINS.
Patterson, Harral & Gray,
Specialties from Auction in
HARDWARE, CUTLERY
AND HOUSE FURNISHING HARDWARE,
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SAMSON & MASSACHUSETTS Brands.
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TEMPERED STEEL WIRE
TEMPERED COMPRESSION & EXTENSION SPRINGS A SPECIALTY.
MACHINERY SPRINGS
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MAIN OFFICE, Jersey City, N. J.

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Power Hammers
Write to us for Circulars.
THE SCRANTON & CO.,
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Cost a trifle more than other brands, but are cheaper in the end on account of their superior quality and workmanship. . . . . .



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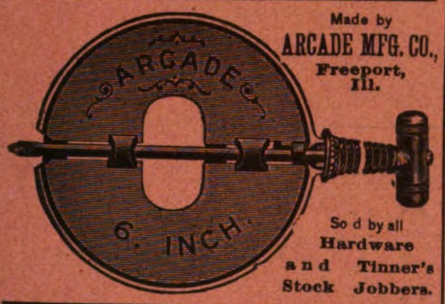
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Plain and Galvanized Wire.

BARB WIRE.

Wire Straightened and Cut to length.



Made by
ARCADE MFG. CO.,
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Sold by all
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Ask your jobber for it.

IT DRAWS THE CORK

—twists it out with ease. Saves all the customary pulling and bothering.

WALKER'S SELF-PULLING
CORK SCREW No. 5
with wire cutter.

Is best of all. . . . .
Invaluable to everyone.

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MANUFACTURERS OF
NUTS, BOLTS, WASHERS, RIVETS, RULES, &C.
In great variety and of best quality.
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PATENT STEEL BARN
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ANTI-FRICTION.
MOST COMPLETE IN CONSTRUCTION.
MATERIAL THE BEST.
NO BREAKAGE.

Ease of Movement. Always in Order.

LANE'S Patent Noiseless Steel Parlor Door Hanger.



Hanger is made of steel throughout, including wheel, except interior filling which deadens the sound.

Single Steel Track Instead of Double Wood Rail.

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Adjustments above and below the track without removing the door.

Once used will use no other.

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Ausable Horse Nail Co.,

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Hot Forged and Hammer Pointed Nails

IMITATING THE
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FAC-SIMILE OF AUSABLE BOX AND BRAND.



Genuine Ausable Nails are packed in boxes bearing their FULL NAME and Trade Mark.

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WITH THIS SCREW LADIES CAN DRAW TIGHT CORKS EASILY.

WILLIAMSON'S
HAND POWER CORK SCREW,
Pulls the Cork out of the Bottle.

DIRECTIONS FOR USE:
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Best Crucible File Steel; Hard, Thorough Temper;
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Du Pont's Crystal Grain.
Unequaled in strength and cleanliness.

Du Pont's Eagle Ducking.
Unsurpassed for penetration and pattern, burning slowly, strong and very clean.

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Specially adapted for Prairie and Upland Shooting; burns slowly, strong and moist; gives good penetration with a close pattern.

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Regular pattern and high velocity, with low pressure. Try it. Load same as Black Powder. Directions on every wrapper.

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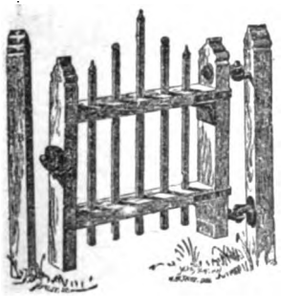
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If Columbias are not properly represented in your vicinity, let us know.

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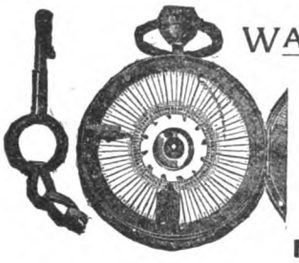
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For Hot Weather,
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Why certainly you want it,
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Furnished with either Straight or Taper Shanks, any length desired. Three Styles.

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Are salable goods for any Hardware Dealer and carry with them a good profit.

Have you our new Production Catalogue? It is sent free of charge.

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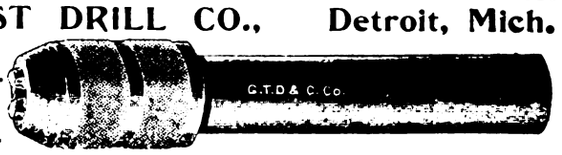
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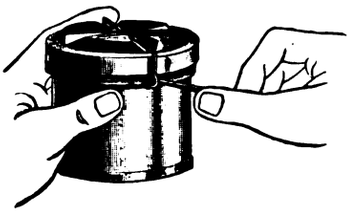


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It Doesn't Burn off.

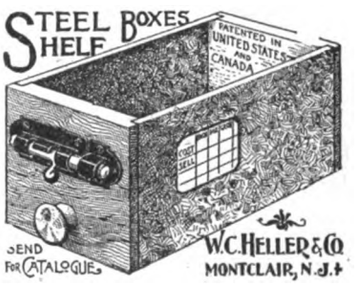


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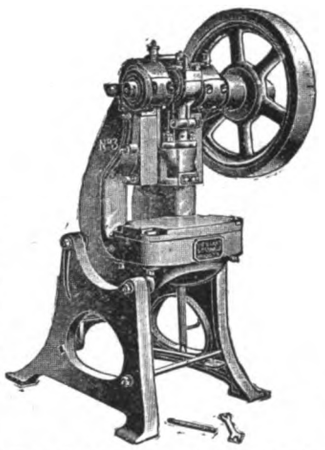
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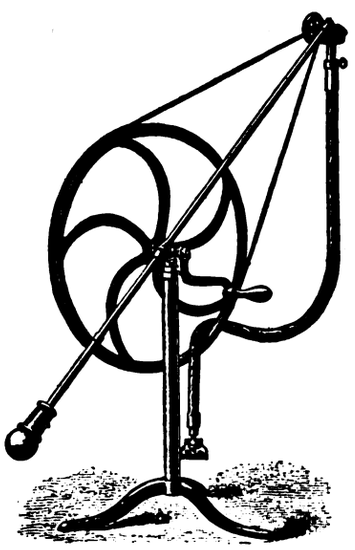
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FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

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OVER 2000 MACHINES SOLD IN SIX MONTHS.

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Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . . . . .

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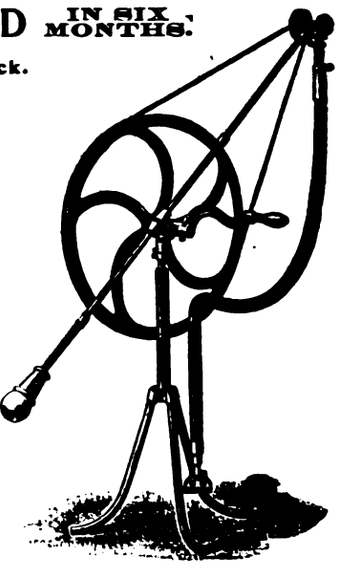
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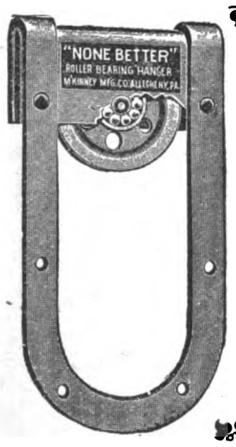
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THEY WILL INTEREST YOU.

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OFFICE NEWARK, AND WORKS N.J., U.S.A.
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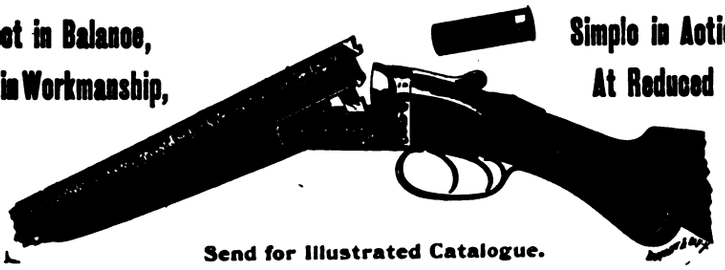
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OF ALL KINDS.

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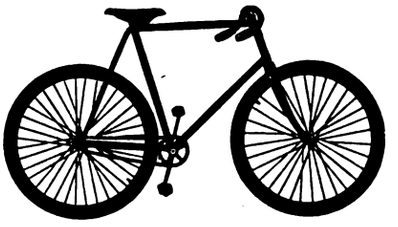
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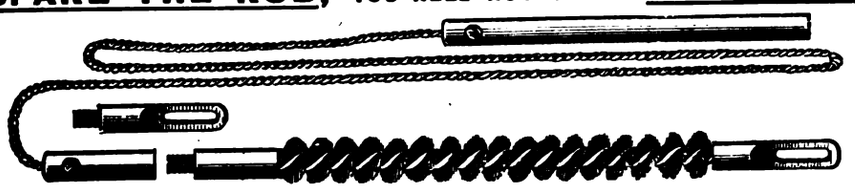
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SPARE THE ROD, YOU NEED NOT SPOIL THE RIFLE



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Adopted by the U. S. Navy on account of its simplicity and effectiveness.

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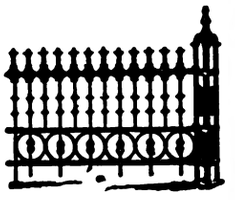
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Manufrs of Iron Fence, Jails, Architectural and Ornamental Iron Work.



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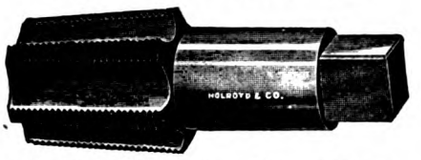
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If you have not received our revised price list write for it.

The Cleveland Stone Co.,

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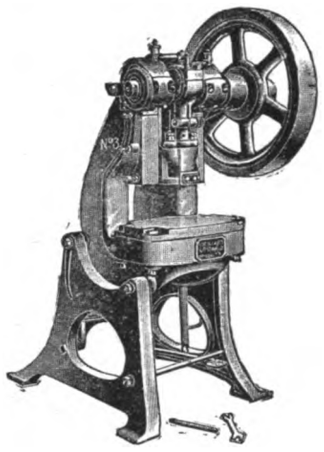
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Waterford, N. Y.

"With Gratifying Results"

New York Belting & Packing Co., Ltd., New York. [*Belting, Garden Hose, Water Hose, Steam Hose, Packing and Rubber Specialties*]: We have been carrying quite a prominent advertisement in HARDWARE with gratifying results. That we expect to continue this advertisement is the best evidence we can give of our regard for it as an excellent medium.

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Manufacturers of

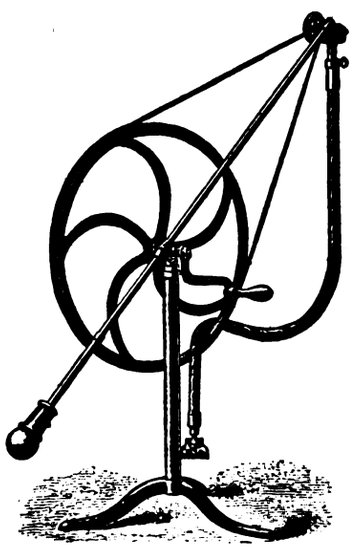
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FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

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Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . . . . .

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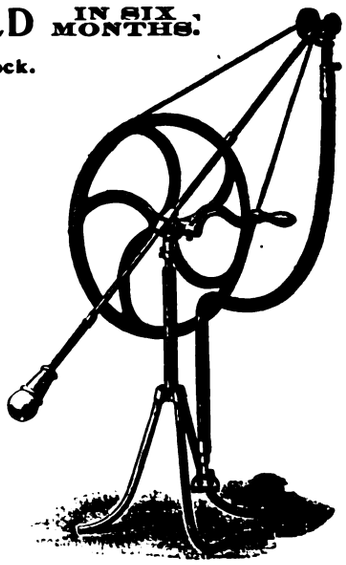
SHOWING OUR DIFFERENT STYLES OF

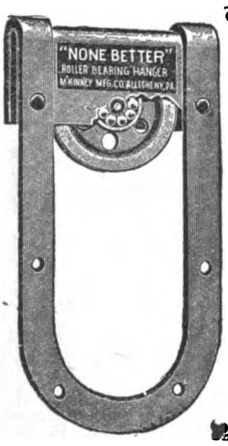
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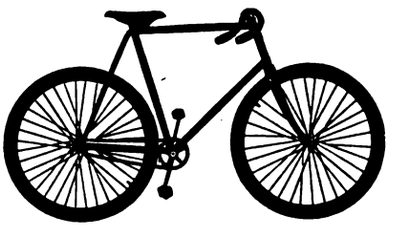
REMINGTON ARMS CO.,

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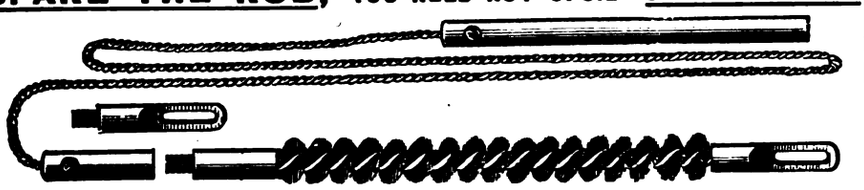
THE "SPARK" '97 MODEL

An up-to-date machine. List, $60. Our specialty "One Wheel," "Best Grade," at "One Price" To all, $60. They are handsome, well built, finished in elegant taste and strictly up with the times. If you want a ready seller, better write us.



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SPARE THE ROD, YOU NEED NOT SPOIL THE RIFLE



IF YOU CARRY THE U. S. GOVERNMENT CLEANER INTO THE FIELD.
Adopted by the U. S. Navy on account of its simplicity and effectiveness.

The Bridgeport Gun Implement Co., Bridgeport, Conn. 313-315 Broadway, New York City.

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MACHINIST.
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Send for our Shovel Catalogue showing goods carried in stock and new prices.

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We furnish first-class work at prices that bring the trade. Write for Catalogues, Prices and Terms

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OF ALL KINDS.
SEND FOR CATALOGUE.

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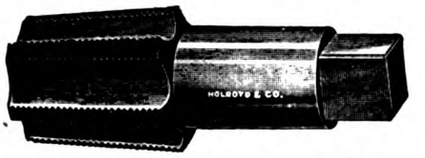
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If you have not received our revised price list write for it.

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"With Gratifying Results"

New York Belting & Packing Co., Ltd., New York. [*Belting, Garden Hose, Water Hose, Steam Hose, Packing and Rubber Specialties*]: We have been carrying quite a prominent advertisement in HARDWARE with gratifying results. That we expect to continue this advertisement is the best evidence we can give of our regard for it as an excellent medium.

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BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

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Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

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Neatest designs, greatest strength, and finest finish of any made. Large stock of all sizes constantly on hand and all orders filled promptly. By the gross, package or in bulk as desired. . . .

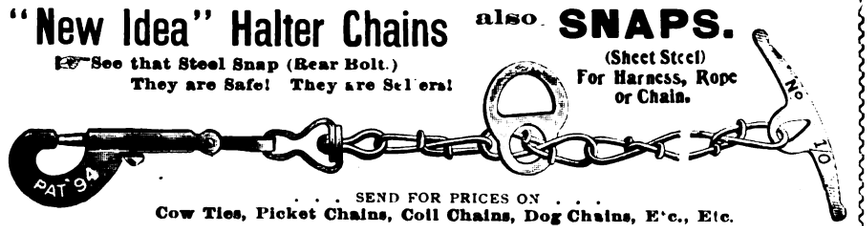
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"New Idea" Halter Chains also SNAPS.

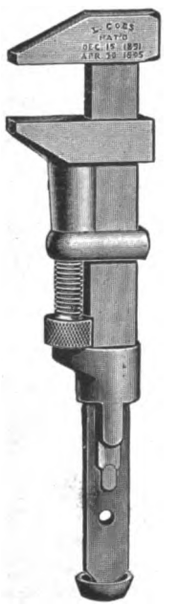
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They are Safe! They are Several

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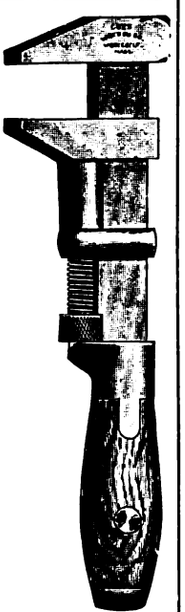
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PATENT

Screw Wrenches.

MANUFACTURED BY

COES WRENCH CO.,

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Established in 1839.
Registered April 9, 1895.

Patented Dec. 15 1891.
Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞Straight Bar, Extra Long Nut for Screw in Jaw.☜

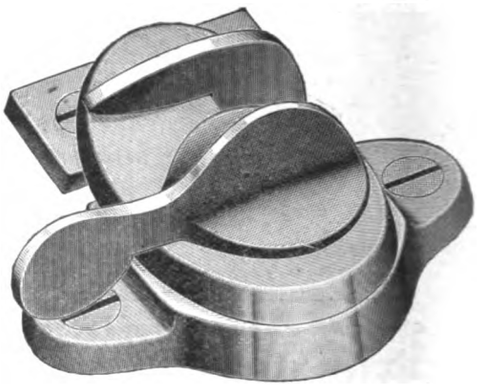
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New Stamped Metal Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

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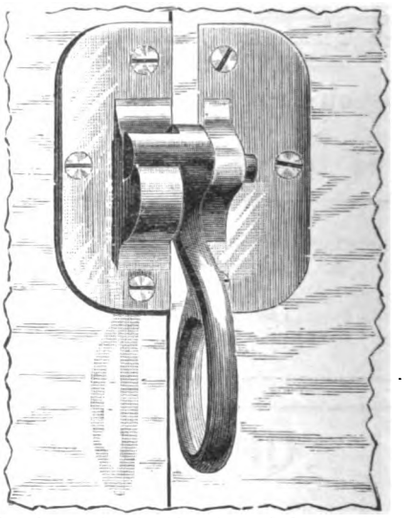
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The only Practical Fastener in use.



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Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

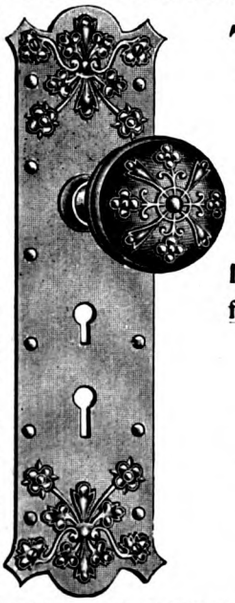
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
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And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

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(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,

Inside, and Sliding Door

Sets Complete.

Bell Pushes, Etc.

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Manufacturers of **Builders' Hardware,**

Factory and General Offices,
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SALESROOMS:

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C. H. & E. S. GOLDBERG,

WHOLESALE DEALERS IN

GENERAL WOODENWARE.



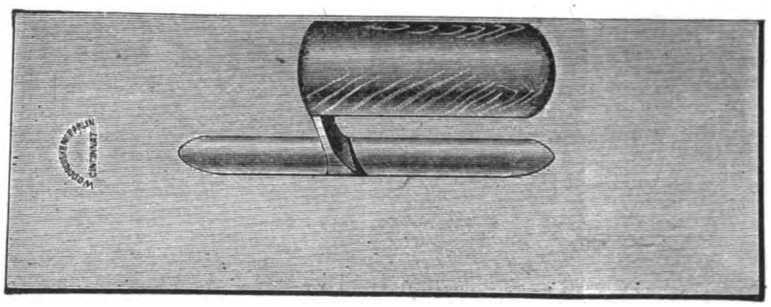
Possessing ample facilities, in their new location covering a whole block, they are enabled to carry the largest stock of goods in this line known to the trade.

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THE ONLY ORIGINAL

WOODROUGH & McPARLIN (CINCINNATI) PLASTERING TROWEL

——IS MFD. BY——

The National Saw Co., General Office: NEWARK, N. J.

"DUPLEX" WROUGHT BUTTS

Wrought Steel
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All Sizes and
All Finishes.

These Butts are better than the ordinary kinds. Made only by

READING HARDWARE COMPANY,

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Factories, READING, PA.

Do You Want Something Made?

My Specialty is to Manufacture for Other Parties.

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30 KINDS.

COPPERED, TINNED, NICKEL PLATED.

. . . WE MAKE TONS OF THEM. . . .

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Special Machinery

Estimates made on all kinds of Special Machinery. Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates.

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Goods to Order a Specialty. Dies and Tools.

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THE MALIN & CO. CLEVELAND, O.

The Chicago Rolling Ladder

Especially Adapted for Hardware Stores.



THE CHICAGO ROLLING LADDER.

The first requisite for a store ladder is **ease of operation.** The Chicago is the only ladder of the style shown above that does work easily. If you would save one-half your labor, fit your store up with either the **Chicago** or **Bicycle Step Ladder** system. Write for Catalogue illustrating our 4 distinct ladder systems to

The Bicycle Step Ladder Co.,

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IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.



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Linen Fire Hose

All grades.

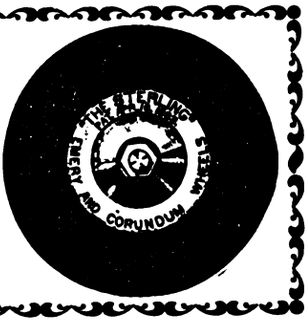
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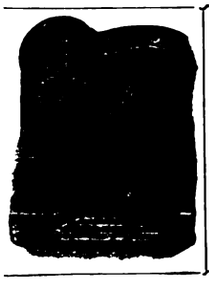
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MANUFACTURERS OF

Sterling and Advance Emery and Corundum Wheels,

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"The Safety Weather Strip" FOR USE ON

ALL OUTSIDE DOORS.

THEY PREVENT

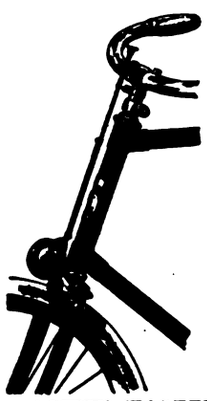
Rain, Snow and Wind

FROM BLOWING UNDER THE DOOR.

WE WANT AN AGENT IN EVERY CITY AND COUNTY.

Manufactured by **The Novelty Mfg. Co.,**

Office, 40 E. Fifth Street, Canton, Ohio.



"The SUCCESS OF THE PHILADELPHIA SHOW" . . .

WAS THE

OSTERMAN BICYCLE BELL.

Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
Quickly adjusted to any wheel.
Strong, Simple.

AGENTS WANTED IN EVERY TOWN.

MADE ONLY BY

JOSEPH OSTERMAN & CO.,

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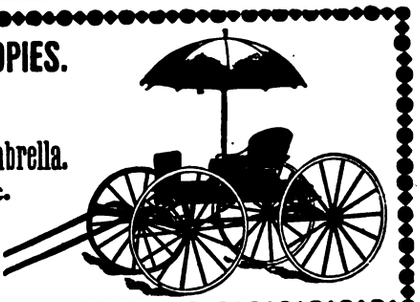
Everything in that line.
Our motto: "Keep a-goin'."
Especial attention invited to

Sprague's Patent Giant Frame Wagon Umbrella.

It is the Strongest Umbrella on the globe.
Write to us, and let us prove it.

SPRAGUE UMBRELLA CO.,

Norwalk, Ohio.



"FOR YEARS."

Henry Disston & Sons, Philadelphia, Pa. [*Saws, Files, etc.*]: Our opinion of HARDWARE is contained in the fact of our having carried an advertisement in your paper for a period of years.

FRANK W. GILBERT, Prest. O. C. EDWARDS, Treas.

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EMERY WHEELS.
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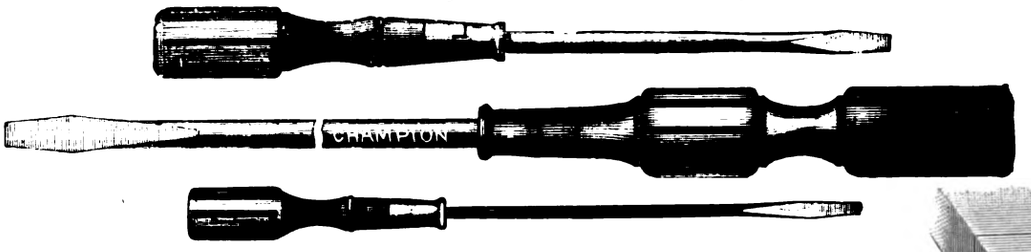
OSCAWANA, N. Y.

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CARPENTERS AND MACHINISTS' TOOLS.

TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



See that the word "CHAMPION" is on each Screw Driver.

STEPHENS' PAT. VISES.

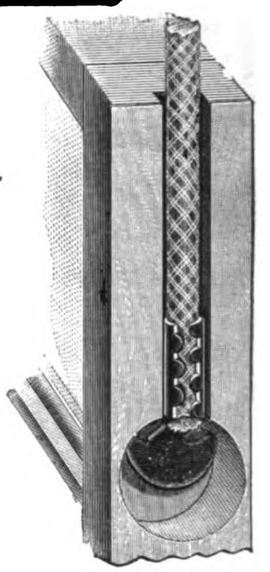


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PHILLIPS'

Sash Cord,
Sash Weight,
Sash Chain
and
Sash Ribbon
Fasteners.



Shows Fastener in use.

TOWER & LYON,

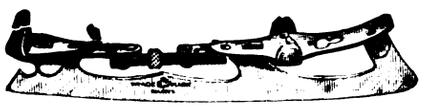
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PADLOCKS, POLICE GOODS, ETC.

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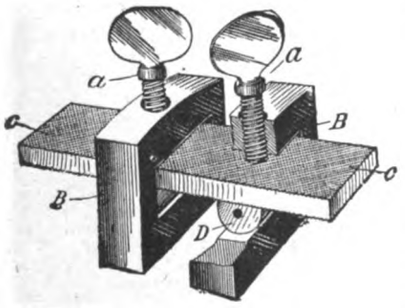


UNION HARDWARE CO.'S RACING SKATE,
CALLED THE
DONOGHUE RACING SKATE.

Made in three lengths, 14, 16, 18 inches.



The Union Skate Sharpener



A New and Useful Article
Which Speaks for Itself.

This device is simple, being composed of but three parts—two side pieces and a short file. It is easily adusted at once. A child can operate it perfectly and do as good work as a machine shop.

It will adjust itself to any make or style of skate.

It always works and may be carried in the pocket.



This cut shows the natural method of using.

Sells on Sight. **Send for Price.**

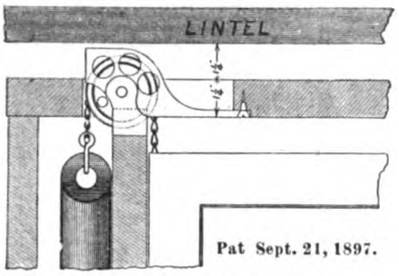
—MANUFACTURED BY—

UNION HARDWARE CO.,

New York Office in charge of TOWER & LYON. **Torrington. Conn.**

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QUEEN SINGLE FRAME PULLEYS.



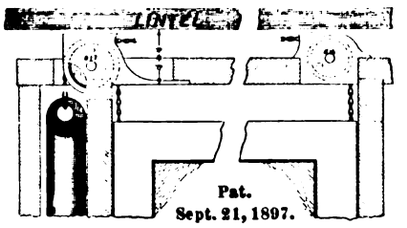
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QUEEN PULLEYS.

No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

Architects will note accompanying cuts. They represent 2½-inch pulleys and only require 2½ inches head room from top of sash.

QUEEN MULLION FRAME PULLEYS.



ONE WEIGHT BALANCES THE SASH.

QUEEN SASH BALANCE CO., 150 NASSAU STREET, NEW YORK CITY.

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E. C. Atkins & Co.,



Indianapolis, Ind.

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TUTTLE TOOTH.

The best saw in the world for the money. Fine Steel. Patent Temper. Why not supply your trade with the best saws, and buy the Atkins Brands? They're the best.

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Memphis, Tenn. - Chattanooga, Tenn.
Minneapolis, Minn.

Write for Price List and Trade Price.

MFRS. OF

CIRCULAR, BAND, CROSS-CUT AND HAND

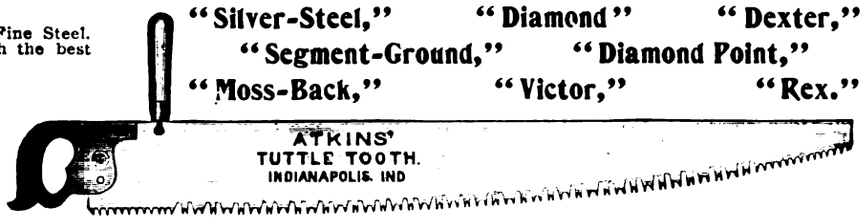
SAWS.

OUR REGISTERED TRADE MARKS

CROSS-CUT SAWS

ARE

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"Segment-Ground," "Diamond Point,"
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Automatic Machines for turning and finishing Cones, Cups, Screws, Nuts, Nipples, etc. Our machines are used extensively by nearly every prominent cycle manufacturer in this country and Europe.

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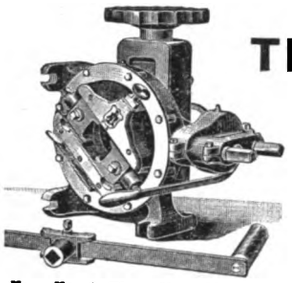
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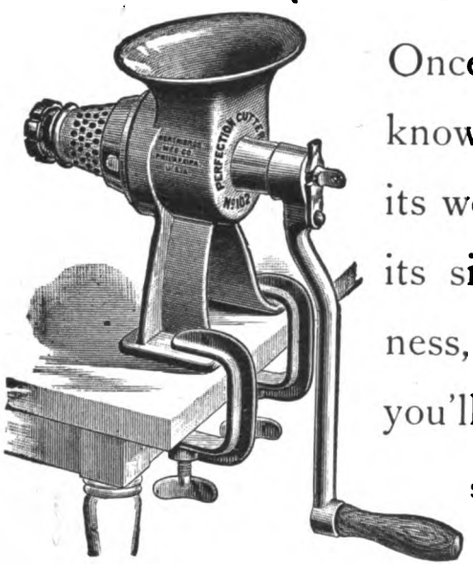
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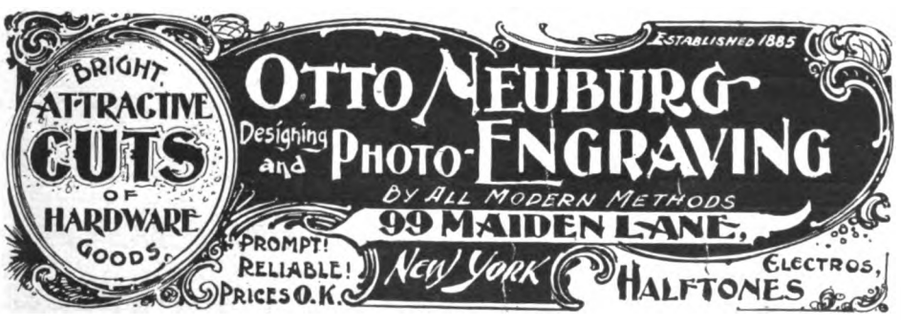
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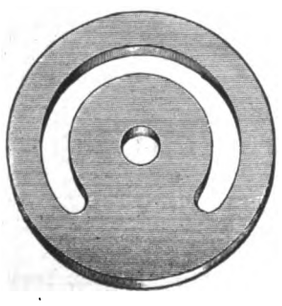
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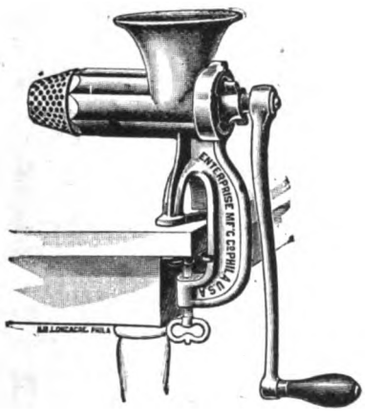
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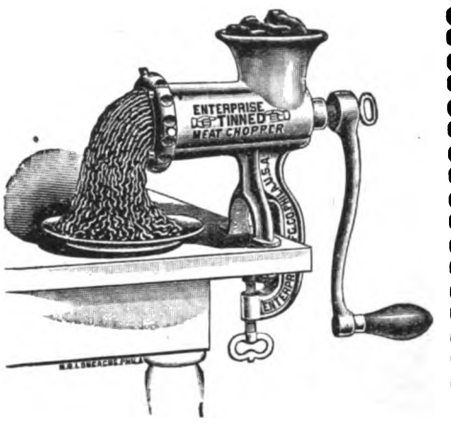
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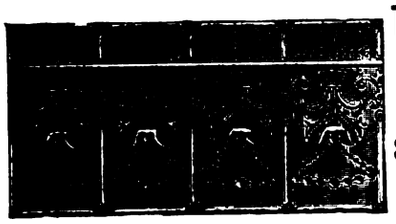


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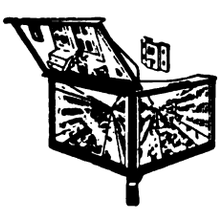
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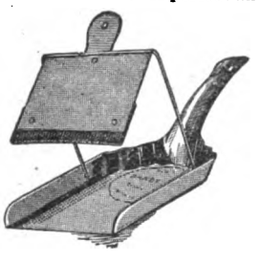
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Household Specialty.

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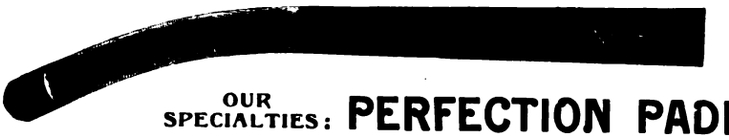
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OUR SPECIALTIES: PERFECTION PADLOCKS,

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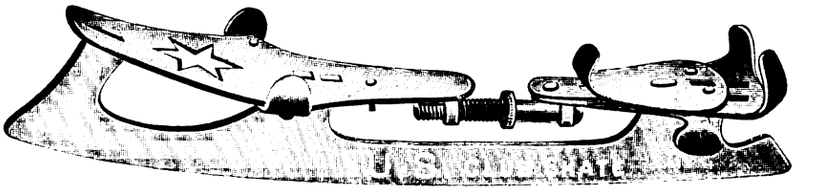
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Manufactured by P. Lowentraut.

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HAY CARRIERS, FORKS, PULLEYS &C.



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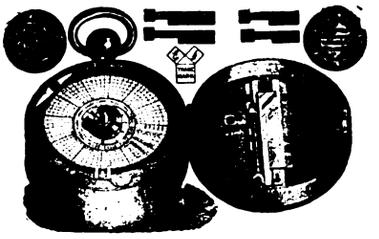
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Copper Sheets and Circles
Copper Wire
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Corrugated Leader, Tin Round and Square
Corrugated Leader, Elbows and Shoes to match Tin and Galvanized Leader
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Dripping Pans
Eave Trough
Eave Gutter
Eave Trough Irons and Spikes
Elbows
Embossed Sheet Iron
Embossed Elbows and Pipe
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Roofing Tin
Roofing Cross Lock Seamers
Rosin
Russia Sheet Iron
Solder
Soldering Coppers
Spangler's Double Lock Edger
Spelter
Spelter Solder
Squaring Shears
Stereotype Metal
Stove Bolts
Stove Pipe
Stove Pipe Collars
Stove Pipe Crimper and Beader
Strainer Wire
Taggers' Iron
Taggers' Tin
Tin
Tin Plates
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Tinned Tacks
Tinners' Machine
Tinners' Tools
Universal Chimney Cap
Wall Hooks
Water Cut-offs
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Wire Nails, Barbed
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Watchman's Improved Time Detectors



12 and 24 different Keys, with Safety Lock Attachments. U. S. Patents, 1876-76-77. Re-Issue, 1880. Trade Marks 1881, 1882.

1876. Highest Award and Medal of Honor at the Centennial Exhibition, for Portability, Security, and general adaptation for purposes intended.

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This Watchman's Time Detector contains all the modern improvements. The only perfect instrument in the market. Warranted in every way. It cannot be tampered with successfully.

E. IMHAUSER,
206 Broadway, New York.

...THE...

CHASE PUMP & MFG. CO.,

Manufacturers of the Most Complete Line of

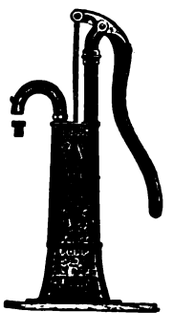
DOUBLE-ACTING FORCE LIFT and WIND MILL

PUMPS

On the Market.

The ONLY Pump with ALUMINUM VALVE SEAT.

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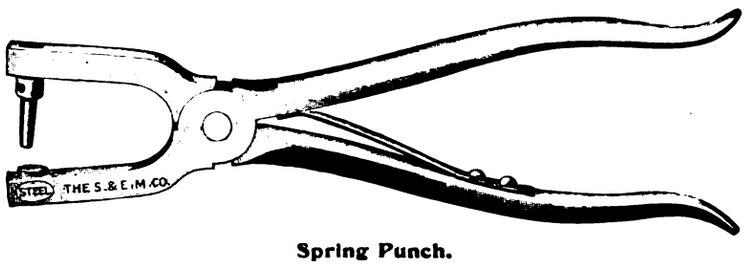
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MANUFACTURERS OF ALL KINDS OF
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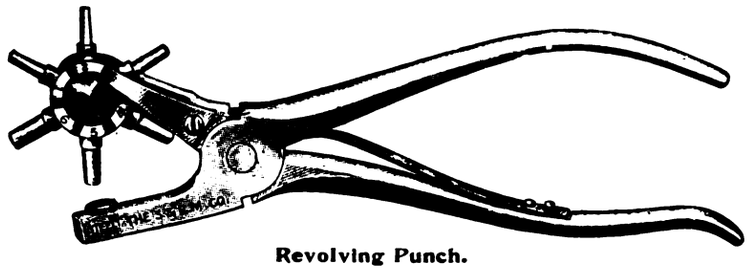
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ALL CENTRALLY LOCATED.

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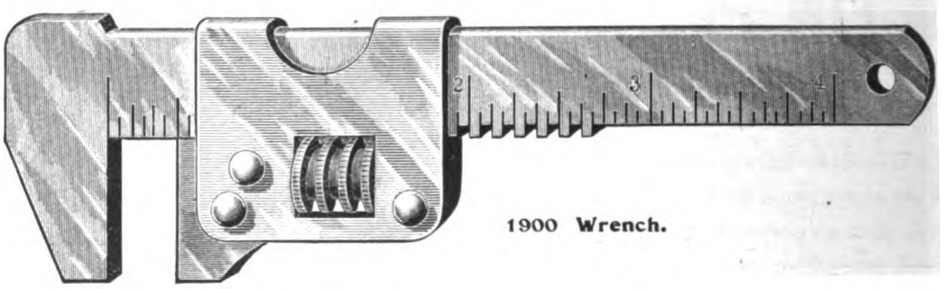
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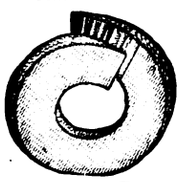
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Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
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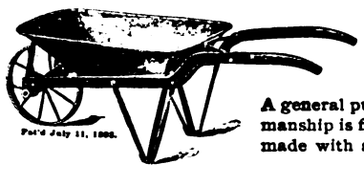
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Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel,* in 7 sizes, including *inside pans* and *grate bars* in all sizes. *Bakes finest bread.*
For terms, address
THE ROYAL POLISHED STEEL ROASTER CO., Troy, O., U. S. A.

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ALL STEEL BARROWS Except Handles.



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For Coal, Ashes, Cinders, etc.

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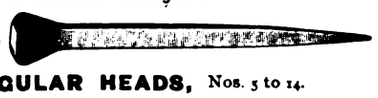
Complete stock always on hand. Exclusive manufacturers and originators of the only Interchangeable Script Sign Letter. A fine line of House Numbers, Name and Door Plates, and Street Signs. Aluminum Trade Checks, Aluminum Bicycle Chain Guards, Aluminum Castings. We challenge comparison for promptness, quality, and prices. Illustrated Catalogue on application.

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TURF NAILS, Nos. 1 to 5.



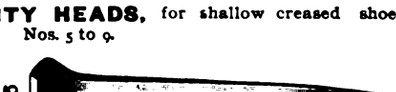
FRENCH HEADS, will fill any shoe punched or creased. Nos. 3 to 8.



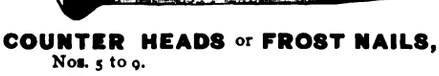
REGULAR HEADS, Nos. 5 to 14.



CITY HEADS, for shallow creased shoes, Nos. 5 to 9.



COUNTER HEADS or **FROST NAILS,** Nos. 5 to 9.



PUTNAM NAIL COMPANY

NEW DEPARTURE.

In consequence of the action of the National Hardware Association, we now propose to sell direct to the general jobbers of the country. . . . . .
All restrictions have been removed as to quotations to be made by the trade from ocean to ocean. . . . .
The high quality of the Putnam Nail makes it an easier seller at an advanced price over nails made by rolling and shearing. . . . . .
In case local dealer does not handle our goods, address

The Putnam Nail Co., Neponset, Boston, Mass.

235 Lake St., Chicago, Ill.
12-14 Drum St., San Francisco, Cal.

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HARDWARE

VOL. XVI. NOVEMBER 25, 1897. NO. 4.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING. CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

Subscription, $1.00 per year. Subscription, Foreign, $1.50 per year.

JAMES H. KENNEDY, Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRANK REIFSNIDER, - Western Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

The holiday trade sets in early and bids fair for this season to be of more importance than for several years. The increased employment at good wages given the workers in the various divisions of labor, and the prosperous conditions felt by everyone to be underlying the plans of the future, have a tendency to respond liberally to the wish for holiday expenditure, and make possible the acquisition of some household convenience, or personal adornment, for which the present time is an appropriate season to entertain purchasing. By comparison with a year ago the times are infinitely better and more promising of certain results, even if the business man's extremely sanguine views with which the year commenced have failed to reach the most important achievement he had pictured.

Business since election has been more encouraging in its character than the fortnight before, showing that the excitement attending political campaigns, even in unimportant years, exerts an unhealthy influence in retarding trade; more attention being paid to the all pervading political agitation than to the demands of activity and application in material improvements.

With the prospect ahead of an unprecedented year for business in 1898, it is noticeable in many lines that movements are being inaugurated, having for their object the combination of leading manufacturers in order to control the output and prices on their various industries. This is done to prevent the cut-throat business which senseless competition invariably engenders, when a competitor's quotations and not conditions of cost form the basis of the bidding for business. The coming month will no doubt be full of these reports, some founded on fact, like that of the "Granite Ware" manufacturers, and others full of the desire to accomplish, but "letting I dare not wait upon I would, like the cat in the adage."

There is a movement among the jobbers of the West for the restoration of the charges for package and cartage, formerly the custom until a few years ago, when a leading house in Chicago decided to abandon it. It is a well-understood fact the retailer pays it in some other form, without feeling it so palpably as if made an itemized charge; but the close competition on many goods has made comparisons unfavorable when even this small percentage is added to an ascertained net cost. The old dealers will eventually decide it is better to make a specified charge as previously obtained, but will agree upon charging the cases and cartage at actual cost, and not endeavor to make the expense of shipping goods bear a proportion of profit out of all proportion to the goods sold, the close margin of profit on which is too well known to be made a subject of discussion by the retailer.

The money market keeps in a very easy condition. The arrangements in regard to the large payments on account of the Union Pacific syndicate were so conveniently attended to no disturbance of the money market resulted therefrom, and the New York loan market finds the supply of funds abundant, with no chance for a squeeze in rates, which it was at first feared would ensue.

The increase in the net earnings for 126 railroads during 1897 are such that compared with 1896 they show a net gain of nearly 11½ per cent. Twenty-six railroads of the number, during eleven months, show increased earnings reaching to $17,345,000. The three principal ones averaging over $2,000,000 each, shows only too plainly the prosperity of a state of affairs which sheds its sunshine over the future in no uncertain manner.

Solving the Problem of Prison Labor.

It is gratifying to find, from the statement made by Gen. Austin Lathrop, the superintendent of State prisons, that the present system of prison labor in New York is an undoubted success. The State prisons have been made self-supporting and the labors of the convicts actually made profitable by the production of supplies needed by the various institutions of the State, worth at selling prices $750,000. These goods were able to be sold by the prison authorities to the institutions needing the same at lower prices than they could be obtained for outside, so these institutions also can show a financial saving in expenses by the adoption of this wise and economic law.

This system, as may be remembered, was put in force in accordance with the provisions of an act, which was passed last year, in pursuance of a provision in the constitution of 1894, prohibiting the sale in the open market of goods made in prison. This law, which went into effect on January 1st of this year, provided that all State institutions, departments and political divisions should purchase all supplies and articles of equipment from the various prisons if it were possible to manufacture such articles there. It is gratifying to know the demand was one sufficient to keep all the convicts employed, and at the same time the prisons are able to show during eleven months a profit of $150,000 above the actual cost of manufacture, which profit, instead of, as previously, reaching the pockets of the contractors, will be credited to the taxpayers of the State.

The working of this wise provision permits the train-

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ing of the convicts in the trades they pursue while in prison, and, as we argued before in these columns when the subject was one of general discussion, thereby increased the chances of the discharged convict in finding honorable employment, if so inclined, and becoming a self-supporting and law-abiding citizen. As has been truly said, 'a single convict restored to decent life, or a single young man saved from a life of crime, far more than offsets all the possible harm done by the competition of prison labor with free labor."

Is a Trade Winner.

The Merchants' Association, whose good work has been referred to before in these pages, have issued a summary from the registers kept in headquarters, showing the number of merchants who have visited the Association from August 9th to the present date, together with the number registered from each State, and from places outside of the United States. This shows that forty-nine States and Territories have been represented by these visitors. The executive officers of the Association announce that the campaign for the Spring trade will be waged even more actively than has been possible during the present Fall. The results must, of necessity, be of benefit not only to the trade of New York, but to merchants all over the United States, who certainly can benefit themselves and their business houses by a personal inspection of this market. At present, the list of resident members is something above 1100, while there are more than 26,000 names on the non-resident list. The list further shows that there were a number of visitors from Bermuda, one from Honolulu, one from Mexico, and a number from New Brunswick and Nova Scotia. The largest number of visitors from one State was, of course, from New York, with Ohio second, and Pennsylvania third. This Association was founded upon business principles, and has been conducted in a business-like manner, and its success during 1898 should be even beyond that of the present year.

Hardwaremen and Holiday Trade.

A passing reference to the fact that Hardware dealers are each year paying more and more attention to the holiday trade, found in one of our market letters elsewhere in this issue, suggests a point that is well worth careful consideration. Why should not the store of the Hardware dealer, both in the large cities and smaller country towns, become one of the chief points for the sale of holiday goods? The thousand and one artistic forms in which articles of Hardware and house-furnishing are manufactured, are as attractive as anything that can be found in the jewelry or the dry-goods store, and certainly no more useful line of presents can be found. In these days, when the modern Hardware store vies with those in other lines of business in the neatness of the store and the artistic method by which goods are displayed, there is no reason in the world why a special endeavor should not be made to catch the trade of the holiday buyer. A special window displayed about the first of December and afterwards, would certainly attract attention, not only to the general line of goods offered for sale but also to those which have a special bearing upon the Christmas season. We know of dealers who have made it pay them very well indeed, for all the trouble and money expended in pushing holiday goods, and letting people know that they are specially in the market with an attractive line of useful and ornamental goods.

The Annual Gathering, at Buffalo.

We believe that every reader of *Hardware* will decide, that the pages given in this issue to a full report of the annual gathering of the National Hardware Association, at Buffalo, are used to the best possible advantage. A great organization, which practically takes in the entire jobbing trade of the country, is too potent a factor in the Hardware business of America, and of the world, to be lightly regarded, or quietly dismissed. The recent convention at Buffalo was, in point of actual value to the trade, and of especial value to its members, equal in all respects to those successful gatherings which have been held heretofore. The affair was made signally successful by the labors of the entertainment committee, consisting of members of the Hardware trade of Buffalo, and of New York State generally, and we are certain that no one who was present will withhold the meed of praise to these enterprising and hospitable gentlemen. The next session will be held in Milwaukee, Wis., in the fall of 1898, and will probably demonstrate to the great Northwest, as already has been to the Middle and Eastern States, that the Hardware jobbers of America are a live and enterprising body of business men, and that they know how to create and maintain a national organization, that is a model of its kind.

New Members Hardware Club.

At a meeting of the board of governors of the Hardware Club of New York, held on November 11th, the following gentlemen were unanimously elected to membership:

L. V. Walkley, No. 26 Cortlandt Street.
Frederick W. Barker, No. 253 Broadway.
C. L. Burger, No. 253 Broadway.
W. E. Skinner, Temple Court Building.
Geo. S Brownell, No. 445 Pearl Street.

Hereafter in New York State all blacksmiths and horseshoers in cities of over 50 inhabitants must have a license granted by a board, the majority of whom are practical horseshoers.

Hardware Terms Illustrated.



A BAND SAW.

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Why Some Men Fail.

The shores of the commercial waters are strewn with many wrecks. It always has been so, and will continue the same down to the end of time. Of the many who embark, but few attain to the haven of competency or fortune.

Lack of capital is credited with many disastrous endings of a business career. 'Tis true that this is a great hindrance to the making of success, but the history of finance gives us many names of men who have made illustrious successes and achieved great fortunes without its aid. They began with no money, and by perseverance, foresight and industry, accumulated capital and proved that real merit always wins. On the other hand, firms with ample capital for their needs gradually get poorer and poorer, until some day the red flag of the auctioneer floats from the door.

Incompetence is responsible for many failures in business. Men who should have stronger minds and more matured judgment to give them direction, by dint of economy lay by a few hundred dollars, and because they think it is more honorable to be in business than to serve another man, they attempt what nature never intended them for, and as a result they are compelled to give up the race, and again seek a position with perhaps their former employer.

Some men make excellent clerks. They are honest, reliable and industrious, but are lacking in executive ability and the qualities necessary for the management of details. They are all right if they have some one to plan the campaign. They can then carry it out, but they are entirely at sea when compelled to depend upon their own resources.

Laziness causes many a man to miss that success which he might obtain were he alert. Many men start well, and make some progress, but as they see things going along smoothly, they think they can now "take it easy," and so leave the management of their stores to irresponsible clerks while they go on a hunting or a fishing trip, or spend many hours loafing around hotels when they should be behind their own counters.

A man cannot make a business success in this way, and he will be surprised to see how his trade is drifting away from him.

A man to succeed in these days of keenest competition, must work hard. He must have a constant oversight upon the minutest details of the business, and though he may not perform every task himself, he should know that it has been done properly by his subordinates.

Extravagance ruins many a man who otherwise might have achieved fortune. Young men on a salary are contented and save a portion of it. Bnt when these same men start in business, they are not content with their former pay. They fail to realize that in its initial stages every dollar left in the business is worth more than two dollars when a business is fully established.

They think because much money passes through their hands, that it belongs to them, and they spend it too lavishly in consequence. They have not sufficient self-control to bind themselves down to small wages, but think now that they are proprietors, that they are at liberty to spend more than when they were working for another man. This is a fatal mistake that many men make. They should consider themselves merely as servants of the business, and though they may earn more than formerly, and be entitled to more wages, yet the business, to get on firm footing, needs every possible dollar left in it. If they have the necessary foresight, they must know that by such a process, if they have sufficient patience, in a few years they can with safety use more for personal expenses.

Again, many men fail because they are not satisfied with a moderate success. They embark in business, and by economy and hard work they add considerably to their capital. They earn a good living and a comfortable surplus besides; but they are not satisfied with their profits, and think if they could branch out more and do a larger business, they would soon become rich. Instead of making slow but sure progress, they wish to achieve the success of older men at a bound. They are not content to plod slowly up prosperity's hillside, but must take the fast express to the goal of their ambition.

A case recently came within my notice. A young man had saved up a few hundred dollars, and with assistance from an uncle, opened a small store. He understood his trade, had a good location, and for a year or two made some progress. He worked hard, and his expenses were light. But his success unbalanced his judgment, and he launched out into larger quarters and made an extra push for a big trade.

But his expenses were very much augmented, and he thought he needed more spending money for himself, but only a year or two showed him he had made a mistake, and now he is clerking again.

Had he been content to work along in a small way for a few years, with a small expense account, his success would have been assured. LYLE MERTON.

No Luck in Horse-shoes.

There is a truck-driver on Greenwich Street, in this city, who stands ready to demolish any man who attempts to persuade him that horse-shoes are lucky. He started up street the other day with a load of discarded horse-shoes, which were to be delivered to a junk shop in the neighborhood. He was hardly under way when the tail-board of his wagon fell out, and about a bushel of shoes were scattered on the pavement, and in picking these up, one of them fell upon his foot and injured him so that he limped for a week. While he was reloading, a rapidly driven car came down the street, and struck the rim of his wheel, demolishing two spokes, and he had hardly unloaded and started for home, before his horse took fright and ran away, demolishing his wagon and nearly killing him in the bargain by throwing him against a pillar of the elevated road. On reaching home he found three of the children sick with the measles.

The special electric locomotive now being tried on the Western Railway of France is past the experimental stage. The first locomotive of the type built was described some time ago. The new engine recently completed weighs 115 tons, excluding the tender, which can carry 20 tons of water, and has drawn a train weighing 355 tons at a speed of 62½ miles an hour over an ordinarily heavy road. There are eight motors and a corresponding number of pairs of wheels, and each of these motors actually gives 100-horse power generated by two dynamos of 1000 amperes at 450 volts. These electric generators have been constructed by Willans & Robinson. The locomotive is 93 feet long over all, and 9 feet wide, the chimney being 13 feet 9 inches above the rail level.

The very taking card of the Ferrosteel Co., Cleveland, Ohio, on page 75 of this issue is in illustration of the quality of their No. 20 iron, which was illustrated and described in our column of specialties in the issue last preceding. This iron is being very well received with the jobbing trade, and can be sold by retailers at $1.25 per set, and at this price ought to find a ready market.

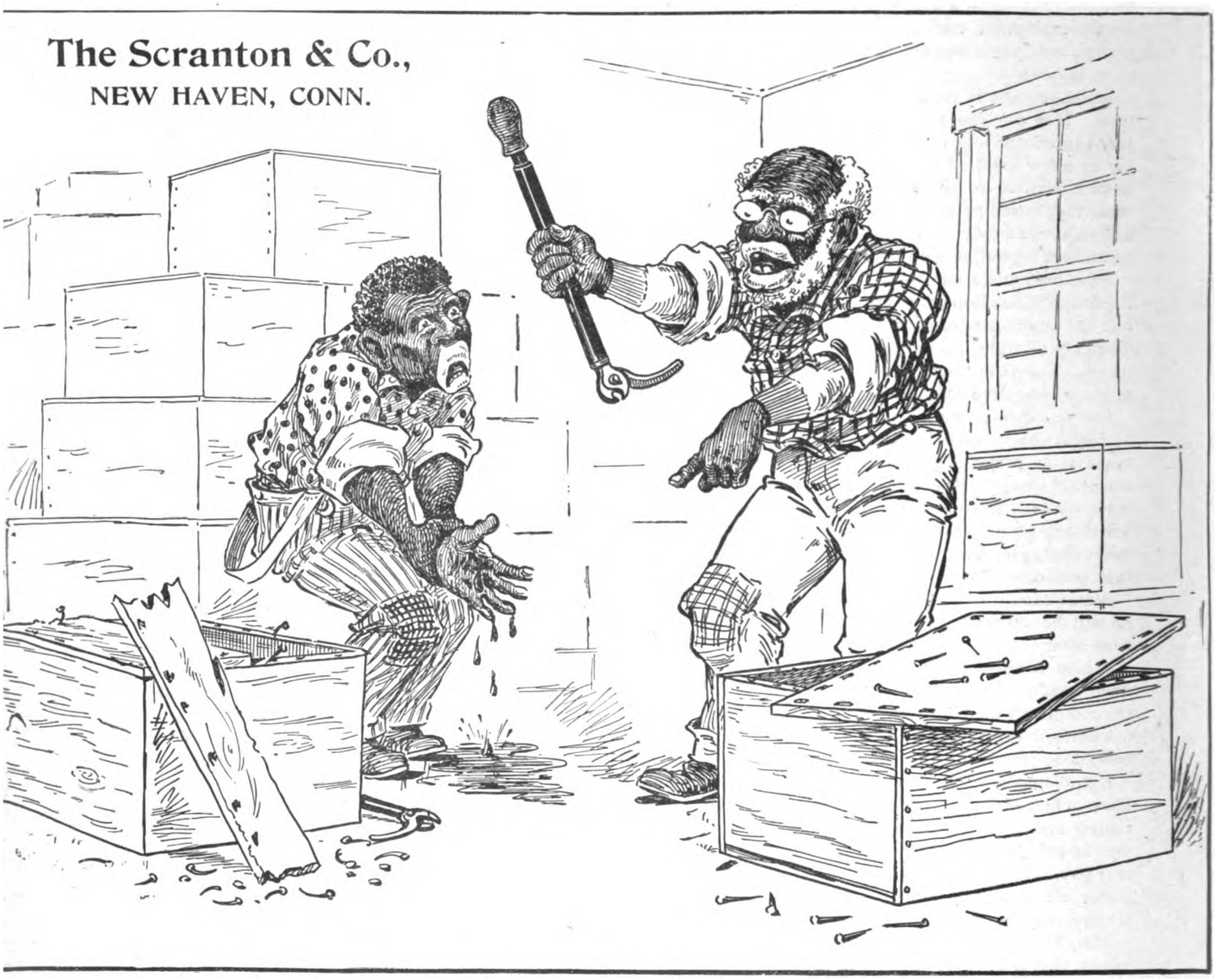
Information was given out in Philadelphia, recently, that the Imperial Japanese Government had just contracted with the Illinois Steel Co. for 26,000 tons of steel rails and fastenings. These rails are to be of the Pennsylvania Railroad standard and seventy-pound section.

Don't get stuck with unknown brands of stove polish; sell Enameline.

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Scranton Nail Pullers.

Sometimes a sermon can be preached far more effectually by an appeal to the eye, than by an attempt to reach the heart or the judgment through some other medium. The young colored gentleman, whose justified expletive we see in connection with the expressive picture shown in this connection, is learning a very valuable lesson—which is that the cheapest is very often the costliest in the long run. The scene here depicted is doubtless familiar to anyone who has spent any length of time in a shipping room, and the illustration which is pictured, teaches that trouble of this character could be obviated by the use of the Scranton



YOUNG MOSE: "DAMN!!"
OLD EPH: "DEMS YOU JUST DISERTS. DID'N I TOLE YOU CONSIDERABLE DAYS AGO TO GO FROW AWAY DAT OLE PULLER AN BUY ONE OB DEM SCRANTON NAIL PULLERS WHAT CANT HURT DE HAN, LEAVES DE NAIL STRAIGHT AND WILL LAST TIL DE TRUMPETS BLOWN?"

Improved Nail Pullers. These nail pullers are manufactured by The Scranton & Co., New Haven, Conn., and sold through J. C. McCarty & Co., No. 10 Warren Street, New York, as selling agents. They are constructed of material most suited to the purpose, and of designs which have proved entirely satisfactory. They are built in two designs and three sizes.

The Scranton & Co. have for years successfully manufactured Nail Pullers, and are now prepared with increased facilities, to furnish them in any quantities. They would be pleased to have all parties interested in the sale of these goods apply to J. C. McCarty & Co., No. 10 Warren Street, New York, for latest circulars and prices.

Mr. Connors Enlarging.

Information comes from Troy, N. Y., of an important purchase made by William Connors, the well-known manufacturer of paints, etc., of that city. He has come into possession of the Olympic mill on River Street, which is one of the best manufacturing sites in Troy, having two large water-wheels of 150-horse-power each. Mr. Connors proposes to remodel the present building and equip it especially for the manufacture of American Seal paint, and erect a separate building, which will be used exclusively for the grinding of dry colors. The machinery to be used in operating this plant will be entirely new, of which Mr. Connors is the sole owner and patentee. His method not only reduces the cost of production, but makes a much better article than can be produced by the present means. This extensive improvement is actuated by the steadily increasing demand for American Seal paints, and when completed will be one of the finest plants of its kind in this country. It will be five stories high, with a frontage on River Street of 123 feet, running back to the river about 100 feet. Plans are now under way and work will be begun at once and must be completed before March 1st.

Money dammed up by the father often drowns the son.—*Hardware and Metal Reporter.*

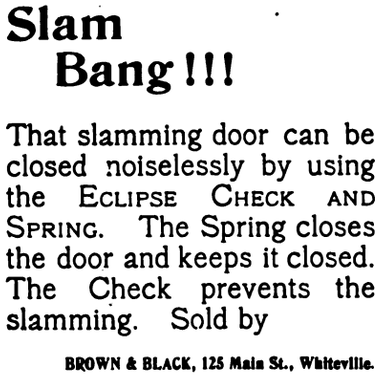
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Ready Made Advertising for Customers.

Sargent & Co., New York, and New Haven, Conn., are doing good work for dealers handling their specialties by distributing in pamphlet form proofs of a number of electrotypes they have prepared, in a handsome and artistic manner, expressly for use as advertisements by their customers. They are all numbered for convenience in selection, and are furnished by Sargent & Co. gratuitously for the purpose of exploiting the "Eclipse Door Check and Spring," the season for the sale of which being close at hand. They vary in size from a two-inch single column, up to and including 6¼ inches double column. We present in the course of this article several of the smaller sizes, and where the customer prefers using wording of his own, any of the cuts necessary for advertising the "Eclipse"—illustrations of which are also contained in this pamphlet—will be furnished free of charge. This method of assisting publicity, by helping the dealers do justice to seasonable specialties in their local advertising, is on advanced lines and worthy of imitation.



No. 6. 2 inch Single Column.



No. 1. 2 inch Single Column.



No. 31. 4 inch Single Column.

Awards at the Brussels Exposition.

All manufacturers of machinery and users of the same, will be interested in the list of awards made at the Brussels Exposition in the section of Machine Tools, and we accordingly give the same in detail as follows:

1st—The "Grand Prix," or highest possible distinction, was awarded to but three concerns, one foreign and two American: Brown & Sharpe Mfg. Co., Providence, R. I.; The Pratt & Whitney Co., Hartford, Conn.; Le Progres Industriel, Brussels, Belgium.

2d.—The Gold Medal, or next to the highest distinction, was awarded to eight foreign and nine American competitors: Cincinnati Milling Machine Co., Cincinnati, Ohio; Gould & Eberhardt, Newark, N. J.; G. A. Gray Co., Cincinnati, Ohio; J. Becker Mfg. Co., Fitchburg, Mass.; Morse Twist Drill & Machine Co., New Bedford, Mass.; Norton Emery Wheel Co., Worcester, Mass.; Prentice Bros., Worcester, Mass.; Bullard Machine Tool Co., Bridgeport, Conn.; Warner & Swasey, Cleveland, Ohio.

3d—The Silver Medal was awarded to eight foreign and nine American competitors: Acme Machinery Co., Cleveland, Ohio; W. F. & J. Barnes, Rockford, Ill.; Bickford Drill & Tool Co., Cincinnati, Ohio; Bradford Mill Co., Cincinnati, Ohio; Gisholt Machine Co., Madison, Wis.; Landis Bros., Waynesboro, Pa.; F. E. Reed Co., Worcester, Mass.; Bradley Co., Syracuse, N. Y.; Hendey Machine Co., Torrington, Conn.

4th—The Bronze Medal was awarded to four American competitors: D'Amour & Littledale, New York City; Dwight Slate Machine Co., Hartford, Conn.; Hurlbut Rogers Machine Co., South Sudbury, Mass.; L. S. Starrett Co., Athol, Mass.

The Brown-Lewis Cycle Co.

Among the most widely known of bicycle dealers is the Brown-Lewis Cycle Co., of Chicago, Ill., and the very large business which they have built up during the past few years is but another proof of the old adage that "honesty is the best policy," and shows that fair dealing is bound to win against any kind of competition. They took a long step in the lead when they originated the plan of shipping bicycles anywhere on the continent, subject to full examination and approval before acceptance, trusting wholly to the public's appreciation of a good thing at the right price. Their line is one of the most complete in America, embracing machines of all grades, at prices within the reach of every one. Just now, they are advertising some very remarkable Fall bargains to sell out this year's stock, in order to make room for 1898 models, which will soon be on the market. They state that satisfaction is guaranteed in all purchases, and any who desire anything in their line will do well to correspond with them.

The deepest shaft in the United Kingdom is said to be that of the Ashton Moss Colliery, near Manchester. It is 2880 feet from the surface to the bottom. The seams dip at the rate of 9 inches per yard. The greatest vertical depth attained is at the Pendleton Colliery, near Manchester. This pit has an incline of 1 in 3, which has been sunk 4700 feet from the bottom of the shaft, which is 1575 feet deep. The greatest vertical depth is therefore 3474 feet.—*Exchange.*

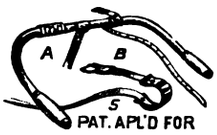
The hardest things that can be said againt a competitor are too soft and weak to be used as business building material.

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NEW GOODS AND SPECIALTIES.

Phœnix Bicycle Luggage Carrier.

The little illgstration shown herewith, is of the Phœnix Bicycle Luggage Carrier, manufactured by N. H. Benjamin & Co., Phœnixville, Pa. This Carrier is a strap of 26 inches



in length, made of very strong and finely finished russet leather. The spring which clasps over the handle-bar of a bicycle, is made of tempered steel, nickel-plated. The buckle is also nickel-plated, and each pair is packed in a box, which has a sliding telescope lid. This Carrier can be fastened to the bar at any point that may be desired, the spring holding the strap rigid. The weight is but one and a half ounces per pair, and the Carrier can be adjusted or taken off in an instant. They retail at 25 cents per pair.

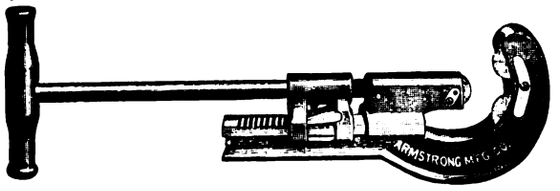
The Star Truck.

We present in this connection an illustration of the Star Truck that is being manufactured and placed upon the market by the Boston & Lockport Block Co., No. 142 Commercial Street, Boston, Mass. It is shown that this truck will handle with equal facility large and small boxes, kegs, tubs, or barrels of any size. The iron points at the bottom are sharp and cannot slip, while the hook shown above the cross slat slides readily up or down in the slot in the handle, adjusting itself to the height of the article to be moved. It is made of selected ash with steel axle, cast wheels 3¼ in. diameter, and is strongly built every way. The manufacturers further state that it is just the thing for use in general stores, etc., and that anybody interested in this line of goods should send for a sample order, and prove this fact for himself.



A New Armstrong Pipe Cutter.

The illustration shown here is of an improved form of the well-known No. 3 Pipe Cutter, manufactured by the Armstrong Mfg. Co. This tool, it is claimed, is "the strongest and most rapid working pipe cutter on the market, and it is also the cheapest; this by reason of its taking a larger range of pipe than any tool known that is made



for a like purpose, viz: from 1½ inches to 4 inches inclusive." The change from the smallest to the largest size is made by simply raising a pawl and allowing the hooked bar to slide outward. To change to a smaller size, the hooked bar is pushed in to the required size, when it is ready to cut. The thread on the handle is only used to follow up the cut as the cutter is revolved about the pipe. This cutter may be changed from a three-wheel to a one-wheel cutter by simply substituting rollers in place of the two cutter wheels at the end of the hooked bar. Full information will be furnished our readers upon application either to the home office of the Armstrong Mfg. Co., at Bridgeport, Conn., or No. 139 Centre Street, New York city.

Self-Oiling Hangers.

J. K. Williams, Akron, Ohio, is placing upon the market with no small degree of success, a line of Self-Oiling Hang-

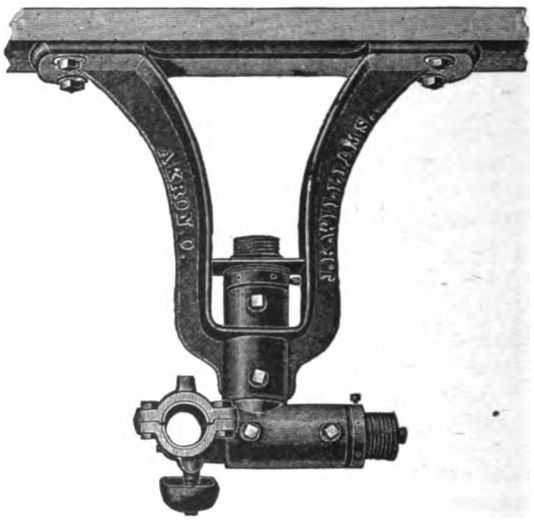


FIG. 1.—SELF-OILING DROP-HANGER NO. 1.

ers, a good idea of which can be learned from the accompanying illustrations. His Self-Oiling Drop Hanger No. 1 is shown in Fig. 1. In Fig. 2, may be seen his Self-Oiling Post-Hanger, which is adjustable in all directions, and which, in this case, shows a two and one-half-inch hanger, with the center of the shaft fourteen inches from the post.

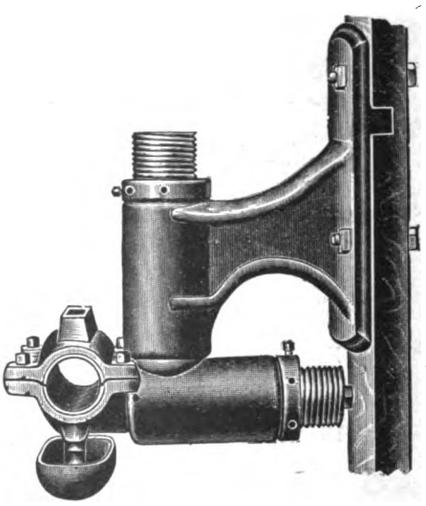


FIG. 2.—SELF-OILING POST-HANGER.

In Fig. 3 is shown the same Self-Oiling Post Hanger, turned, four inches from the center of the shaft to the face of the post. He also makes other varieties of these goods, full information concerning which, with prices, he will send upon application. Mr. Williams states that in offer-

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ing these hangers to the public, he does it with the consciousness that they fill truly a long-felt want, as they are really adjustable. He has had a great deal of experi-

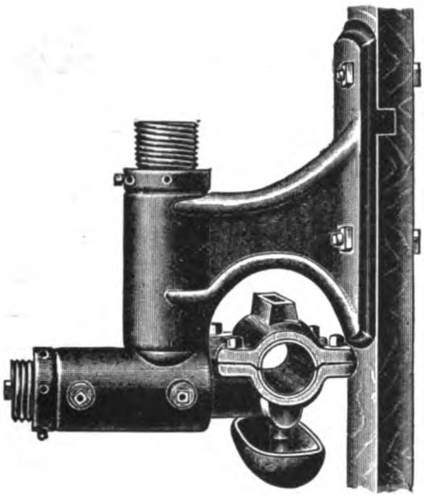


FIG. 3.—SELF-OILING POST-HANGER.

ence in putting up shafting, and declares that for economy and value, no better hangers can be found in the market.

"Queen" Pulleys.

The Queen Sash Balance Co., No. 150 Nassau Street, New York, are placing upon the market the Queen Frame Pulleys, consisting of the Queen Single and Mullion Frame pulleys, which can be used as an overhead pulley, without the necessity on the part of the architect of allowing extra head room when making plans. The single frame pulley is illustrated in Fig. 1. Among the desirable advantages claimed for the Queen pulley, many of which are of great importance, may be mentioned the following: "The Queen pulley can be placed in any window in which the ordinary side pulley can be used. No iron or steel work in any building will interfere in any way with the perfect action of the pulley. No extra space for head room will have to be allowed by architects when specifying the Queen pulley. The construction of this pulley is such that the cord, tape or chain can be applied quicker than with any other overhead pulley. In using the Queen pulley a large amount of pocket room is gained over the side pulley, thus doing away with lead weights and reducing the cost. No grooving of the sash is necessary. The Queen pulley is concealed from view when in use, and the least possible space is left around the pulley, so that air and insects are practically prevented from entering the room in that way. The cord, tape or chain will not leave

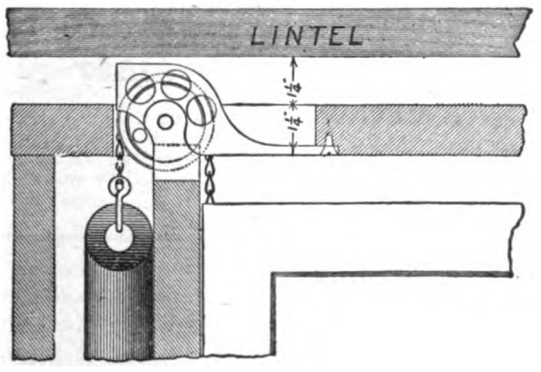


FIG. 1.

the pulley under any strain or by a sudden jerk. No special tools are required to put the Queen pulley in place. Requires at least one inch less head-room." Fig. 2 illustrates the Queen Mullion Frame Pulley, by the use of which the necessity for a "mullion pocket" in twin windows is entirely done away with. By the aid of the Queen mullion pulley, the sashes are operated by one weight only, the same result being obtained as by the old method of using two weights, at the same time giving from 6 to 8 inches more glass space than would be obtained by the ordinary methods previously in vogue. Particular attention of architects is called to the fact, as shown in illustrations

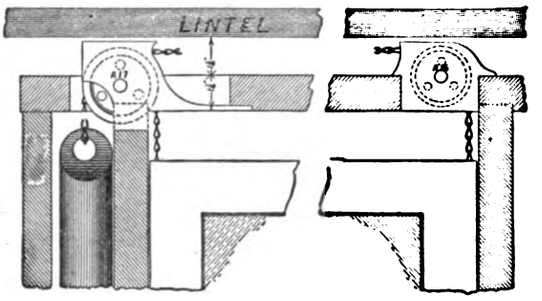
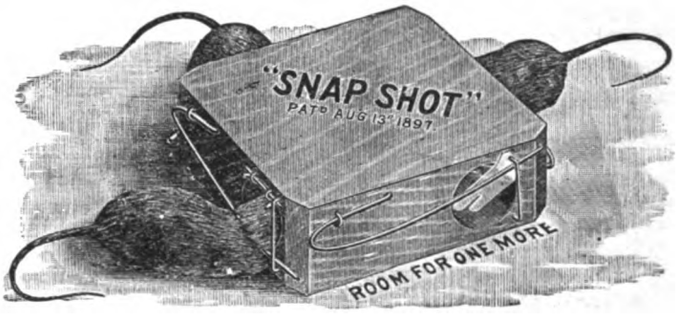


FIG. 2.

above, that the space necessary above window head is only 1¼ inches, or 2½ inches from top of sash. It is claimed that an investigation of their merits by a progressive architect will result in their adoption for the purposes indicated, the wheels, pinions and castings, being made from superior material and constructed with more skill than is usually given to goods of this kind. The company will be pleased to forward a sample pulley to architects upon request.

The "Snap Shot" Mouse Trap.

The Specialty Novelty Co., Lancaster, Pa., Allerton, Clarke Co., No. 79 Reade Street, New York, agents, are placing upon the market, both here and abroad, the Snap Shot Mouse Trap, which is claimed to be the greatest improvement in ordinary every-day mouse traps that has been noted since the war. It possesses patented features that would seem to promise large sales as a novelty of great originality, especially as the prices are so established that it will be possible to sell at five and ten cents respectively the two most salable styles, viz.: the two and four hole varieties. It is constructed in such a way that stepping upon it does not impair its usefulness, and it will, and is calculated to, stand more knocking around and still be found "right side up with care" than any ordinary



trap of similar appearance now on the market. The simplicity in its makeup enables it to be set by lifting the long wire to the top of the hole, where it rests on the small projection on the flap, with no possible danger to the fingers while fixing the bait or setting the wire. The export agent is C. B. Corwin, No. 15 Whitehall Street, New York.

A New Firm of Enamelers.

Walter M. Hall & Co., the senior partner of which new firm was for several years the energetic manager for the Benfield & Milne Mfg. Co., have established themselves in business at No. 89 Fulton Street, this city, a location immediately opposite the old stand. They are now prepared to continue this growing business under more favorable auspices than ever. Enameled lettering for window and special sign advertising has become of wide scope during the past few years and now assumes a trade importance worthy of being cultivated by the Hardware dealer.

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THE NATIONAL HARDWARE ASSOCIATION.

The third annual convention of the National Hardware Association was held in Buffalo, N. Y., on November 17th, 18th and 19th, 1897. Formed in Cleveland, Ohio, in 1894, under favoring auspices, and with an initial staff of officers who were in themselves a guarantee of its success, this great organization met in Pittsburg in 1895, again in Philadelphia in 1896, and the present year Buffalo had the honor of being the seat of its deliberations. The gentlemen who are connected with the Hardware business of that city, backed loyally by the jobbers of the great Empire State, played the part of hosts to perfection, and nothing that lay within their power that could contribute to the good work of the Association, or entertainment of its members, was left undone.

A COMPREHENSIVE PROGRAMME

of the occasion had been prepared in advance, under the trained direction of T. James Fernley, at headquarters in Philadelphia, showing in detail the work that had been laid out. The programme in full, with a representation of its initial page, will be found as follows:

OFFICIAL PROGRAMME.

LIST OF OFFICERS AND COMMITTEES

President: William W. Supplee, Philadelphia.

First Vice-President: H. H. Bishop; McIntosh-Huntington Co., Cleveland, Ohio.

Second Vice-President: John Alling; John Alling & Co., Chicago, Ill.

Secretary-Treasurer: T. James Fernley, Philadelphia, Pa.

Executive Committee: F. P. Strong; Farwell, Ozmun, Kirk & Co., St. Paul, Minn. Brace Hayden, New York, N.Y.; Dunham, Carrigan & Hayden Co., San Francisco, Cal. Theodore D. Buhl; Buhl, Sons & Co., Detroit, Mich. Col. Morris B. Belknap; W. B. Belknap & Co., Louisville, Ky. John Bindley; Bindley Hardware Co., Pittsburg, Pa. William Chamberlain; the Emery-Waterhouse Co., Portland, Me.

Membership Committee: H. S. Blossom, Cleveland, Ohio, Chairman. D. C. Delamater, Detroit, Mich.; Rufus K. Hireman, New Orleans, La.; C. L. Reynolds, Los Angeles, Cal.: C. W. Hackett, St. Paul, Minn.; W. M. Glass, Omaha, Neb.; Jos. K. Whipple, Boston, Mass.

Fraternal Relations Committee: Richard W. Shapleigh, St. Louis, Mo., Chairman. George Deming, Cleveland, Ohio; Thomas A. Harvey, Saginaw, Mich.; Cortland Van Camp, Indianapolis, Ind.; Charles M. Biddle, Philadelphia, Pa.; R. M. Dudley, Nashville, Tenn.; A. S. Burwell, Seattle, Wash.

Press Committee: George T. McIntosh, Cleveland, Ohio, Chairman. Charles Kruse, Cincinnati, Ohio; J. H. Fall, Nashville, Tenn.; George A. Braun, Toledo, Ohio; Col. J. R. Nutting, Davenport, Iowa; George B. Logan, Pittsburg, Pa.; W. A. Parker, Atlanta, Ga.

Grievance Committee: J. C. Koch, Milwaukee, Wis., Chairman. Hon. C. B. Lockwood, Cleveland, Ohio; A. C. Rulofson, San Francisco, Cal.; William Quincy Wales, Boston, Mass.; G. R. Vaughn, Mobile, Ala.; George Tritch, Jr., Denver, Col.; J. H. Boucher, Rochester, N. Y.

Transportation Committee: Capt. Frederic Barker, Elmira, N. Y., Chairman. Simeon H. Crane, Chicago, Ill.; F. H. Mason, Spokane, Wash.; Jacquelin S. Holliday, Indianapolis, Ind.; W. E. Newill, Atlanta, Ga.; J. G. Standart, Detroit, Mich.; John B. Varick, Manchester, N. H.

Entertainment Committee: Hobart Weed, Buffalo, N. Y., Chairman. C. Whitney Tillinghast, 2d, Troy, N. Y.; Chas. H. Turner, Albany, N. Y.; Griff D. Palmer, Rochester, N. Y.; Harry Walbridge, Buffalo, N. Y.; John R. Griffith, Philadelphia, Pa.; G. J. Laighton, New York City, N. Y.

Metal Committee: William T. Gummey, Philadelphia, Pa., Chairman. G. W. Herrick, Boston, Mass.; Charles W. Potts, Philadelphia, Pa.; C. W. Hackett, St. Paul, Minn.; H. H. Rudd, Cleveland, Ohio; James M. Horton, Chicago, Ill.; P. E. Strauss, Boston, Mass.

ORDER OF BUSINESS.

Wednesday, November 17th, 9.45 A.M.: Meeting called to order by the president. Chorus, "My Country 'tis of Thee." Calling of roll. Reading of minutes—1896 convention. Annual address of president. Report of secretary-treasurer. Report of executive committee. Report of membership committee. Report of grievance committee. Report of fraternal relations committee. Report of press committee. Report of transportation committee. Report of entertainment committee. Report of metal committee. Introduction of official representatives and communications from Hardware associations: Cleveland Hardware Jobbers' Association, represented by Mr. Lockwood. New England Iron & Hardware Association, represented by A. J. Chase. New York State Hardware Jobbers' Association, represented by Chas. H. Turner, president. Missouri Valley Hardware Jobbers' Association, represented by J. A. Warner, secretary. Southern Hardware Jobbers' Association, represented by J. D. Moore. Pittsburg Hardware Jobbers' Association, represented by W. C. Reitz, president. Pacific Coast Hardware & Metal Association, represented by Brace Hayden. Iowa Hardware Jobbers' Association, represented by J. P. Patrick, president. In-



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dianapolis Hardware Jobbers' Association, represented by Cortland Van Camp, president. Nashville Hardware Jobbers' Association; Cincinnati Hardware Jobbers' Association; Portland (Maine) Hardware Jobbers' Association; Detroit Hardware Jobbers' Association, represented by C. T. Fletcher, president. Hardware Merchants & Manufacturers Association of Philadelphia, represented by James H. Ritter, vice-president. National Hardware Association of Great Britain, communication from Hon. Thos. F. G. Coates, Honorable Secretary. Communications. Miscellaneous business.

Afternoon Session, 2 P.M.: Reading of papers: "Importance of each Jobbing House having a minimum selling price," J. T. Jenkins, of Gray-Dudley Hardware Co., Nashville, Tenn.; Leon C. Carter, of Dana Hardware Co., Boston, Mass. Discussion. Opening of question box. Answers and discussions. Miscellaneous business.

Nine to 11.55 P.M.: Smoker at Ellicott Club.

Thursday, November 18th: Miscellaneous business. Opening of question box. Answers and discussions. Miscellaneous business.

Afternoon Session: Miscellaneous business. Reading of papers: "What is the Proper Medium Through which Hardware should be distributed?" D. C. Delamater, of Freeman, Delamater & Co., Detroit, Mich. Discussion. Opening of question box. Answers and discussions.

Thursday evening: Meeting of New York State Hardware Jobbers' Association. Meeting of metal jobbers connected with our association.

Friday, November 19th, 10 A.M.: Election of officers. Arranging seat of next convention. Miscellaneous business. Opening of question box. Answers and discussions.

Afternoon Session: Introduction and installation of officers. Miscellaneous business. Opening of question box. Answers and discussions.

Friday evening: Annual banquet in Hotel Iroquois.

MEMBERS NATIONAL HARDWARE ASSOCIATION.

The official advance programme also contained a list of the members, as follows:

A'abama. Moore & Handley Hardware Co., Birmingham; May & Thomas Hardware Co., Birmingham; Barney-Cavanagh Hardware Co., Mobile; Cunningham Hardware Co., Mobile; Teague, Barnett & Co., Montgomery.

Arkansas. Fones Bros. Hardware Co., Little Rock.

California. Dunham, Carrigan & Hayden, San Francisco; Miller, Sloss & Scott, San Francisco; Baker & Hamilton, San Francisco; Holbrook, Merrill & Stetson, San Francisco; Geo. W. Gibbs & Co., San Francisco; W. W. Montague & Co., San Francisco; Geo. H. Tay & Co., San Francisco; Harper & Reynolds, Los Angeles; Union Hardware & Metal Co., Los Angeles; Schaw, Ingram, Batcher & Co., Sacramento.

Colorado. The George Tritch Hardware Co., Denver.

Florida. The S. B. Hubbard Co., Jacksonville.

Georgia. King Hardware Co., Atlanta; Beck & Gregg Hardware Co., Atlanta; Clarke Hardware Co., Atlanta; Palmer Hardware Co., Savannah; J. D. Weed & Co., Savannah; Edw. Lovell's Sons, Savannah; Dunlap Hardware Co., Macon.

Illinois. John Alling & Co., Chicago; Horton, Gilmore, McWilliams & Co., Chicago; C. Sidney Shepard & Co., Chicago; Edwin Hunt's Sons, Chicago; Clark, Quien & Morse, Peoria; Isaac Walker Hardware Co., Peoria; Cummings & Emerson, Peoria.

Indiana. Van Camp Hardware & Iron Co., Indianapolis; Hildebrand Hardware Co., Indianapolis; Boetticher, Kellogg & Co., Evansville.

Iowa. The Empkie-Shugart Co., Council Bluffs; Schreiber, Conchar & Westphal Co., Dubuque; A. Tredway & Sons Hardware Co., Dubuque; Knapp & Spalding Co., Sioux City; Drake Hardware Co., Burlington; Charles F. Schmidt, Burlington; Sickels, Preston & Nutting, Davenport; J. D. Seeberger, Des Moines; Patrick & Luthe Co., Des Moines; A. Weber & Co., Keokuk; Huber & Kalbach Co., Oskaloosa.

Kansas. J. W. Crancer Hardware Co., Leavenworth; W. A. L. Thompson Hardware Co., Topeka.

Kentucky. W. B. Belknap & Co., Louisville.

Louisiana. A. Baldwin & Co., Ltd., New Orleans; Stauffer, Eshleman & Co., New Orleans.

Maine. The Emery-Waterhouse Co., Portland; Houghton, Clark & Co., Portland; Edwards & Walker Co., Portland.

Maryland. The Tabb & Jenkins Hardware Co., Baltimore; Carlin & Fulton, Baltimore.

Massachusetts. Bigelow & Dowse Co., Boston; Frye, Phipps & Co., Boston; Baldwin, Robbins & Co., Boston; Brown & Wales, Boston; Joseph Breck & Sons, Boston; Dana Hardware Co., Boston; Eldridge, Winnek & Irving, Boston; Chase, Parker & Co., Boston; Fitz, Dana & Co., Boston; Dodge, Haley & Co., Boston; Holder & Herrick, Boston; Bolles & Wilde, Boston; Butts & Ordway, Boston; Miles F. Brennan & Co., Boston; Richards & Co., Boston; Austin & Doten, Boston; The Arthur C. Harvey Co., Boston; E. P. Sanderson Co., Boston; Geo. F. Blake Jr. Co., Worcester.

Michigan. Standart Bros., Detroit; Freeman, Delamater & Co., Detroit; Buhl Sons & Co., Detroit; Fletcher Hardware Co., Detroit; Morley Bros., Saginaw; Foster, Stevens & Co., Grand Rapids.

Mississippi. Lee Richardson Co., Vicksburg.

Minnesota. Marshall-Wells Hardware Co., Duluth; Janney, Semple & Co., Minneapolis; C. W. Hackett Hardware Co., St. Paul; Farwell, Ozmun, Kirk & Co., St. Paul; R. D. Cone Co., Winona.

Missouri. Wyeth Hardware & Mfg. Co., St. Joseph; Paddock-Hawley Iron Co., St. Louis; The A. F. Shapleigh Hardware Co., St. Louis; The Witte Hardware Co., St. Louis; Gille Hardware & Iron Co., Kansas City; Richards & Conover Hardware Co., Kansas City; Townley Metal Co., Kansas City; Rogers & Baldwin Hardware Co., Springfield; McGregor-Noe Hardware Co., Springfield.

Montana. A. M. Holter Hardware Co., Helena.

Nebraska. Rector & Wilhelmy Co., Omaha; Lee-Clarke-Andreesen Hardware Co., Omaha; Baum Iron Co., Omaha.

New Hampshire. John B. Varick Co., Manchester.

North Carolina. Odell Hardware Co., Greensboro.

New York. Albany Hardware & Iron Co., Albany; Walbridge & Co., Buffalo; Weed & Co., Buffalo; Sidney Shepard & Co., Buffalo; Barker, Rose & Gray, Elmira; Irving D. Booth, Elmira; Russell & Erwin Mfg. Co., New York City; Sickels & Nutting Co., New York City; Underhill, Clinch & Co., New York City; Matthews & Boucher, Rochester, Weaver, Palmer & Richmond, Rochester; Bradford Kennedy Sons & McGuire, Syracuse; Burhans & Black Co., Syracuse; Wright, Dana & Co., Utica; Charles Millar & Sons, Utica; J. M. Warren & Co., Troy; Babcock Hardware Co., Binghamton.

Ohio. The McIntosh-Huntington Co., Cleveland; The W. Bingham Co., Cleveland; The Geo. Worthington Co., Cleveland; The Lockwood-Taylor Hardware Co., Cleveland; H. W. Leutkemeyer & Sons, Cleveland; Howell, Gano & Co., Cincinnati; The Johnson Bros. Hardware Co., Cincinnati; The Kruse & Bahlman Hardware Co., Cincinnati; E. H. Huenefeld, Cincinnati; Bode Hardware Co., Cincinnati; The Smith Bros. Hardware Co., Columbus; Kilbourne & Jones Co., Columbus; The Stollberg & Clapp Co., Toledo; Bostwick, Braun & Co., Toledo; Canton Hardware Co., Canton.

Oregon. Corbett, Failing & Robertson, Portland; Honeyman, DeHart & Co., Portland.

Pennsylvania. Supplee Hardware Co., Philadelphia; Shields & Bro., Philadelphia; Biddle Hardware Co., Philadelphia; W. H. & G. W. Allen, Philadelphia; James M. Vance & Co., Philadelphia; Seltzer-Klahr Hardware Co., Philadelphia; T. James Fernley, Philadelphia; Merchant & Co., Philadelphia; W. F. Potts, Sons & Co., Philadelphia; Gummey, McFarland & Co., Philadelphia; Hall & Carpenter, Philadelphia; Bindley Hardware Co., Pittsburg; Logan-Gregg Hdw. Co., Pittsburg; James C. Lindsay Hardware Co., Pittsburg; Wolff, Lane & Co., Pittsburg; Demmler Bros., Pittsburg; Lautner Hardware Co., Allegheny.

Rhode Island. Congdon & Carpenter Co., Providence.

South Carolina. Marshall, Wescoat & Co., Charleston.

Tennessee. C. M. McClung & Co., Knoxville; George Brown, Knoxville; W. W. Woodruff & Co., Knoxville; Langstaff Hardware Co., Memphis; Buford Bros., Nashville; J. H. Fall & Co., Nashville; Gray-Dudley Hardware Co., Nashville; H. G. Lipscomb & Co., Nashville; Tenison, Son & Rose, Nashville.

Virginia. Barker-Jennings Hardware Co, Lynchburg.

Washington. Holley, Mason, Marks & Co., Spokane; Seattle Hardware Co., Seattle.

West Virginia. Ott Bros. & Co., Wheeling.

Wisconsin. John Praitzlaff Hardware Co., Milwaukee; Wm. Frankfurth Hardware Co., Milwaukee; Fred. Kroner Hardware Co., La Crosse.

The members began to arrive as early as Monday, and by Tuesday night a large number were present. Wednesday morning saw many additions, and when the session opened at 10:30 A.M. of that day, there was a large representation to answer to the roll call. Each delegate was given a badge, and a number to correspond, and a list containing the badge numbers and the names had been prepared for the purpose of identification.

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THE LIST OF THOSE PRESENT

as above described, was as follows:

Alabama.

1. J. D. Moore; Moore & Handley Hardware Co., Birmingham.
2. T. W. Gathright; May & Thomas Hardware Co., Birmingham.
3. Barney-Cavanagh Hardware Co., Mobile.
4. Cunningham Hardware Co., Mobile.
5. Teague, Barnett & Co., Montgomery.

Arkansas.

6. Col. D. G. Fones; Fones Bros. Hardware Co., Little Rock.

California.

7. Brace Hayden; Dunham, Carrigan & Hayden, San Francisco.
8. A. W. Milligan; Miller, Sloss & Scott, San Francisco.
9. Baker & Hamilton, San Francisco.
10. Holbrook, Merrill & Stetson, San Francisco.
11. Geo. W. Gibbs Co., San Francisco.
12. Chas. A. Belden; W. W. Montague & Co., San Francisco.
13. Geo. H. Tay Co., San Francisco.
14. Harper & Reynolds, Los Angeles.
15. L. C. Scheller; Union Hardware & Metal Co., Los Angeles.
16. Schaw, Ingram, Batcher & Co., Sacramento.

Colorado.

17. Geo. Tritch, Jr.; The Geo. Tritch Hardware Co., Denver.

Florida.

18. The S. B. Hubbard Co., Jacksonville.

Georgia.

19. Geo. E. King; King Hardware Co., Atlanta.
20. W. A. Parker; Beck & Gregg Hardware Co., Atlanta.
21. Clarke Hardware Co., Atlanta.
22. A. B. Palmer; Palmer Hardware Co., Savannah.
23. J. D. Weed & Co., Savannah.
24. Edw. Lovell's Sons, Savannah.
25. Dunlap Hardware Co, Macon.

Illinois.

26. John Alling; John Alling & Co., Chicago.
27. Horton, Gilmore, McWilliams & Co., Chicago.
28. C. Sidney Shepard & Co., Chicago.
29. A. L Hunt; Edwin Hunt's Sons, Chicago.
30. C D. Clark; Clark, Quien & Morse, Peoria.
31. Frank Jack; Isaac Walker Hardware Co., Peoria.
32. Geo. F. Emerson; Cummings & Emerson, Peoria.

Indiana.

33. Cortland Van Camp. 34. R. P. Van Camp; Van Camp Hardware & Iron Co., Indianapolis.
35. Hildebrand Hardware Co., Indianapolis.
36. Boetticher, Kellogg & Co., Evansville.

Iowa.

37. L. C. Empkie; The Empkie-Shugart Co., Council Bluffs.
38. J. W. Conchar; Schreiber, Conchar & Westphal, Dubuque.
39. A. Tredway & Sons Hardware Co., Dubuque.
40. C. A. Knapp. 41. H. L. Spencer. 42. G. N. Spencer; Knapp & Spalding Co., Sioux City.
43. S. H. Jones; Drake Hardware Co., Burlington.
44. Chas. F. Schmidt, Burlington.
45. Col. Jas. R. Nutting; Sickels, Preston & Nutting, Davenport.
46. J. D. Seeberger, Des Moines.
47. J. P. Patrick; Patrick & Luthe Co., Des Moines.
48. A. Weber & Co., Keokuk.
49. W. H. Kalbach; Huber & Kalbach Co., Oskaloosa.

Kansas.

50. E. W. Crancer; J. W. Crancer Hardware Co., Leavenworth.
51. J. G. Bauer; W. A. L. Thompson Hardware Co., Topeka.

Kentucky.

52. Col. Morris B. Belknap. 53. John W. Price; W. B. Belknap & Co., Louisville.

Louisiana.

54. Rufus K. Hireman; A. Baldwin & Co., New Orleans.
55. Walter Stauffer; Stauffer, Eshleman & Co., New Orleans.

Maine.

56. Wm. Chamberlain; Emery-Waterhouse Co., Portland.
57. Houghton, Clark & Co., Portland.
58. Edwards & Walker Co., Portland.

Maryland.

59. The Tabb & Jenkins Hardware Co., Baltimore.
60. Carlin & Fulton, Baltimore.

Massachusetts.

61. Samuel A. Bigelow; Bigelow & Dowse Co., Boston.
62. A. M. Wiley; Frye, Phipps & Co., Boston.
63. John H. Robbins; Baldwin, Robbins & Co., Boston.
64. Wm. Q. Wales; Brown & Wales, Boston.
65. Jos. Breck & Sons, Corp., Boston.
66. Leon C Carter; Dana Hardware Co., Boston.
67. Eldridge, Winnek & Irving, Boston.
68. A. J. Chase; Chase, Parker & Co., Boston.
69. P. E. Strauss; Fitz, Dana & Co., Boston.
70. Dodge, Haley & Co., Boston.
71. Geo. W. Herrick; Holder & Herrick, Boston.
72. The Bolles & Wilde Co., Boston.
73. Fred. H. Butts; Butts & Ordway, Boston.
74. Miles F. Brennan & Co., Boston.
75. H. W. Waite; Richards & Co., Boston.
76. Harry L. Doten; Austin & Doten, Boston.
77. Arthur C. Harvey; The Arthur C. Harvey Co., Boston.
78. E. P. Sanderson; E. P. Sanderson Co., Boston.
79. C. C. Lewis; Geo. F. Blake, Jr., & Co., Worcester.

Michigan.

80. J. G. Standart; Standart Bros., Detroit.
81. J. Freeman; D. C. Delamater; Freeman, Delamater & Co.
82. Theo. D. Buhl; Buhl Sons & Co., Detroit.
83. Chas. F. Fletcher; Fletcher Hardware Co., Detroit.
84. R. C. Morley, Edward Morley, T. A. Harvey; Morley Bros., Saginaw.
85. Sidney F. Stevens, Grand Rapids.
86. Chas. C. Philbrick; Foster, Stevens & Co., Grand Rapids.

Mississippi.

87. Lee Richardson & Co., Vicksburg.

Minnesota.

88. H. C. Marshall; Marshall-Wells Hardware Co., Duluth.
89. Janney, Semple & Co., Minneapolis.
90. T. G. Walther; C. W. Hackett Hardware Co., St. Paul.
91. R. A. Kirk; Farwell, Ozmun, Kirk & Co., St. Paul.
92. W. J. Landon; R. D. Cone Co., Winona.

Missouri.

93. J. A. Warner; Wyeth Hardware Mfg. Co., St. Joseph.
94. Paddock-Hawley Iron Co., St. Louis.
95. Richard W. Shapleigh; A. F. Shapleigh Hardware Co., St. Louis.
96. The Witte Hardware Co., St. Louis.
97. A. D. Bayles; Gille Hardware & Iron Co., Kansas City.
98. A. L. Riehl; Richards & Conover Hardware Co., Kansas City.
99 Townley Metal Co., Kansas City.
100. Rogers & Baldwin Hardware Co., Springfield.
101. McGregor-Noe Hardware Co., Springfield.

Montana.

102. W. B. Holter; A. M. Holter Hardware Co., Helena.

Nebraska.

103. Rector & Wilhelmy Co. Omaha.
104. H. J. Lee, Omaha.
105. W. M. Glass; Lee-Clarke-Andreesen Hardware Co., Omaha.
106. Baum Iron Co., Omaha.

New Hampshire.

107. John B. Varick; John B. Varick Co., Manchester.

New York.

108. Chas. H. Turner; Albany Hardware & Iron Co., Albany.
109. Chas. E. Walbridge, Buffalo.
110. Harry Walbridge. 111. H Walbridge Bowen; Walbridge & Co., Buffalo.
112. Hobart Weed. 113. Jas. R. Smith. 114. E. C. Neal. 115. Shelton Weed; Weed & Co., Buffalo.
116. Jas. G. Forsyth. 117. Jas. F. Foster. 118. Chas. W. Wells; Sidney Shepard & Co., Buffalo.
119. Capt. Frederic Barker; Barker, Rose & Gray, Elmira.
120. Irving D. Booth; Irving D. Booth, Elmira.
121. Geo. J. Laighton. 122. W. G. Smythe. 123. B. A. Hawley; Russell & Erwin Mfg. Co., New York.
124. Sickels & Nutting Co., New York.
125. A. D. Clinch; Underhill, Clinch & Co., New York.
126. Matthews & Boucher, Rochester.
127. S. J. Weaver. 128. Griff. D. Palmer. 129. Lee Richmond; Weaver, Palmer & Richmond, Rochester.
130. H. L. Kennedy; Bradford Kennedy Sons & McGuire, Syracuse.
131. H. N. Burhans. 132. J. W. Black; Burhans & Black Co., Syracuse.
133. Geo. F. Dana; Wright, Dana & Co., Utica.
134. Chas. Millar & Sons, Utica.
135. J. J. Tillinghast. 136. Gen. C. Whitney Tillinghast; J. M. Warren & Co., Troy.
137. B. M. Babcock. 138. J. H. Underwood; Babcock Hardware Co., Binghamton.

North Carolina.

139. Chas. H. Ireland; Odell Hardware Co., Greensboro.

Ohio.

140. Geo. T. McIntosh. 141. H. H. Bishop. 142. W. H. Coles; McIntosh-Huntington Co., Cleveland.
143. H. S. Blossom; the W. Bingham Co., Cleveland.
144. Geo. Deming. 145. W. D. Taylor. 146. C. A. Jewett. 147. H. H. Rudd; Geo. Worthington Co., Cleveland.
148. B. L. Pennington; the Lockwood-Taylor Hardware Co., Cleveland.
149. E. H. Leutkemeyer; H. W. Leutkemeyer & Sons, Cleveland.
150. Howell, Gano & Co., Cincinnati.
151. The Johnson Bros. Hardware Co., Cincinnati.
152. Chas. Kruse; the Kruse & Bahlmann Hardware Co., Cincinnati.
153. Bode Hardware Co., Cincinnati.
154. E. H. Huenefeld, Cincinnati.
155. T. F. Smith; the Smith Bros. Hardware Co., Columbus.
156. E. B. Kurtz; Kilbourne & Jones Co., Columbus.
157. John Stollberg and T. Harrison; the Stollberg & Clapp Co., Toledo.
158. Geo. A. Braun. 159. Wm. H. Standart; Bostwick, Braun & Co., Toledo.
160. J. B. Brothers; Canton Hardware Co., Canton.

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Oregon.
161. Corbett, Failing & Robertson, Portland.
162. E. J. De Hart; Honeyman, De Hart & Co., Portland.

Pennsylvania.
163. William W. Supplee. 164. William D. Supplee. 165. Jas. S. Bonbright; Supplee Hardware Co., Philadelphia.
166. Chas. M. Biddle. 167. Jas. H. Ritter. 168. Edward Knight; Biddle Hardware Co., Philadelphia.
169. John R. Griffith. 170. Paul A. Griffith; Shields & Bro, Philadelphia.
171. W. H. & G. W. Allen, Philadelphia.
172. Jas. M. Vance & Co., Philadelphia.
173. S. Spencer Scott. 174. Thos. Nelson; Seltzer-Klahr Hardware Co., Philadelphia.
175. T. James Fernley. 176. Frank G. Drew; T. James Fernley, Philadelphia.
177. J. A. McKee; Merchant & Co., Philadelphia.
178. W. F. Potts, Sons & Co., Philadelphia.
179. W. T. Gummey; Gummey, McFarland & Co., Philadelphia.
180. Hall & Carpenter, Philadelphia.
181. John Bindley. 182. W. C. Reitz; Bindley Hardware Co., Pittsburg.
183. W. H. Parke. 184. J. M. Pardee. 185. Robt. M. Repp; Logan-Gregg Hardware Co., Pittsburg.
186. Thos. McMurray. 187. John S. Lindsay. 188. A. J. Bihler; Jas. C. Lindsay Hardware Co., Pittsburg.
189. Wolff, Lane & Co., Pittsburg.
190. Demmler Bros., Pittsburg.
191. Lautner Hardware Co., Allegheny.

Rhode Island.
192. Congdon & Carpenter Co., Providence.

South Carolina.
193. Marshall, Wescoat & Co., Charleston.

Tennessee.
194. Bruce Keener; C. M. McCung & Co., Knoxville.
195. Geo. Brown, Knoxville.
196. Col. W. W. Woodruff; W. W. Woodruff Hardware Co., Knoxville.
197. Langstaff Hardware Co., Memphis.
198. Buford Bros., Nashville.
199. J. H. Fall & Co., Nashville.
200. Col. R. M. Dudley; Gray & Dudley Hardware Co., Nashville.
201. H. G. Lipscomb & Co., Nashville.
202. Tenison, Son & Rose, Nashville.

Virginia.
203. O. B. Barker; Barker-Jennings Hardware Co., Lynchburg.

Washington.
204. Holley, Mason, Marks & Co., Spokane.
205. Seattle Hardware Co., Seattle.

West Virginia.
206. Ott Bros. & Co., Wheeling.

Wisconsin.
207. Fred. C. Pritzlaff; John Pritzlaff Hardware Co., Milwaukee.
208. Erwin Foerster; Wm. Frankfurth Hardware Co., Milwaukee.
209. Fred. Kroner Hardware Co., La Crosse.

THE FIRST SESSION

was called to order at about 10:30 A.M., Wednesday, in the ladies' parlor of the Hotel Iroquois, which was the official headquarters of the convention. President William W. Supplee was in the chair, with Mr. Fernley filling the duties of secretary. After calling the roll and reading the minutes of 1896, President Supplee delivered the

PRESIDENT'S ANNUAL ADDRESS,

which was, in full, as follows:

Gentlemen of the National Hardware Association: Acting upon the authority conferred upon your presiding officer, I am pleased to extend to our members a cordial welcome to this, the third annual meeting of our Association.

We meet in the city of Buffalo, which stands pre-eminently before the country as one of the most progressive commercial cities in our land and has the advantage of both valuable lake and railroad facilities unsurpassed by any other city, and whose recent achievement in the bold enterprise of utilizing the water power of the far-famed Niagara Falls stands as a marvel before the world.

It is not my desire or intention to present a lengthy address at this convention, nor do I think it essential or necessary, having anticipated this moment in several recent letters addressed to our members, in which I stated my convictions in regard to the essential work for the coming year and especially referred to matters pertaining to internal administration and reforms. These letters should certainly have given food for thought, and I shall therefore leave it to the executive committee, with whom I have so frequently conferred on these subjects, to bring these matters before you in detail.

The large and representative attendance at our last meeting, held in Philadelphia, one year ago, gave evidence of the interest then manifested by the majority of our members, and during the interim we have no reason to believe that there has has been any lack of interest, nor are there any signs of smouldering dissatisfaction or discontent.

Our Association was formed after a struggle of one year of depressed trade and for reasons fully expressed in our Constitution and By-Laws, Article II. of which reads as follows: "The object of this Association shall be the promotion of more friendly business relations, and mutual confidence and good-will with each other and with manufacturers." For two years after the formation, general trade conditions throughout the country continued most unfortunate, during which time we have all been made to realize what a small line could be drawn by the average trader between a positive profit and an actual loss. Notwithstanding this fact our Association has flourished and



PRESIDENT W. W. SUPPLEE.

succeeded to an extent that has amazed many older national organizations, and it has been commented upon as the most successful organization in its results that has ever been formed.

The year that has just passed has not been dissimilar to the two preceding years so far as the possibilities are concerned of making money on the part of anyone engaged in mercantile trade, nor has the wholesale Hardware trade been an exception to the rule. I do not stand before you as a pessimist, for I do believe that there has been recent improvement in trade conditions, and in the outlook for the future there can be seen a wide silver lining. But let us not deceive ourselves. I believe that for a few years to come, under the most favorable view of the case, it will require the most careful and prudent business management of those engaged in the distribution of Hardware and its correlatives, be they either in the capacity of manufacturer, wholesale jobber or retail merchant, to recuperate from what has been lost in capital, energy and labor during the last four years. If this be the case, how can anyone afford to be either thoughtless, careless or indifferent in the general management of his business?

I feel we have an era of prosperity approaching, pushing

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back in its march the dark clouds of the recent past. May we not take advantage of the situation, and while we hold fast to that which experience has proven to be good, let us strengthen those points in which we are weak.

In recent letters which I have issued I have endeavored to bring the workings of our organization into the counting house of each individual member. I have also stated that manufacturers who three years ago had contemplated becoming their own distributors for possible business in the near future, have watched our course with an eagle eye, and many of these to-day prefer not to make any further attempt of general distribution outside the legitimate channel, the jobber.

There has been a sober influence on the part of manufacturers during the entire Fall, which has prevented their making speculative prices, but there is a disposition on the part of all manufacturers to secure a profit beyond the actual cost of production, and this alone must gradually end in some advances in prices.

I am creditably informed, however, that no small amount of fear exists on the part of some manufacturers that jobbers who may have made a purchase early in the season might not sustain these necessary and reasonable contemplated advances upon goods already purchased. My answers have been that our Association has already placed itself upon record: "That all jobbers should sustain manufacturers' established prices for an equal quantity of goods," and it is therefore a declared policy of the Association to sustain all reasonable and necessary advances made by manufacturers, notwithstanding the fact that these changes may take place between seasons. I would, however, like some discussion upon this subject.

Our Deliberations: Let us at this meeting freely and intelligently discuss these and other problems which have presented themselves during the interim since our last meeting, remembering that there is no one member of our Association who stands upon so high a pedestal as to make him a gladiator of prices, and that all of us are more or less affected by experimental, untried and unwise methods, not only of our immediate, but of our most distant competitors. The old maxim, that "competition is the life of trade," is old and threadbare, and it might be more truly said that competition unrestrained has been, and will be, the death knell of many.

It is the earnest desire of your president that all delegates to this Convention unhesitatingly rise and present their views and freely discuss any, or all, subjects which may come before you. It has always been the desire of your officers to undertake the handling of questions in such manner as may be pleasing to the rank and file of our organization, and unless we have a free expression of your opinions, they certainly are in no position to know what you desire.

Tariff Changes on Cutlery: In a circular letter to our members, March 26th, I made reference to certain proposed changes of the tariff on pocket cutlery. In doing this I had before me for guidance the position that our Association has always taken in regard to increase in price of any commodity to a point that is out of reason. (See page 54, 1896 Annual Report, also explanatory remarks, Page 148).

The proposed tariff on cutlery, which has already passed the House, showed excessive rates and inaccuracies. New York importing houses had made appeals for modifications, and had secured the aid of more distant importers, but without success. In the meantime the tariff schedule had reached the Senate. I, therefore, quickly communicated with the Chairman of the Finance Committee, calling attention to certain glaring and harmful inconsistencies, and presented a number of detailed illustrations. I might say here, that my communications were courteously received and acknowledged, and I was given to understand that the schedule before the Committee would be investigated and a comparison made with the one presented by your president.

In illustrations sent them it was made plain that a one-blade pocket knife, costing with the then existing tariff 68 cents, with the proposed tariff would cost $1.04, or a duty of 130 per cent. A two-blade pocket knife, costing abroad about 2 marks, to which add the then existing duty would cost 74 cents, the proposed duty would make the knives cost $1.59, or about 220 per cent. on original cost. The retail price on the knife was then about 15 cents, and it would necessitate a retail price of 25 cents. On another two-blade knife, which then existing duty made cost 74 cents, proposed duty would make it cost $2.10, or about 323 per cent. on original cost, which would rule the knife out of the market. On a popular four-blade knife, it was shown where the proposed tariff duty would be 270 per cent., and still another 205 per cent. And it was shown where certain knives under the Wilson Tariff were about 51 per cent. duty, under the McKinley Bill 83 per cent., and with the proposed duty variously from 100 to 325 per cent. The illustrations further showed inaccuracies, where high grade goods, which are largely made in this country, could be imported at less than under either the Wilson bill or McKinley bill, or the bill which existed for many years prior to either of the foregoing.

Communicating with the executive committee, I found they agreed with your president, that we should proceed on the line which he had indicated. I incidentally heard that the chairman of the Senate Finance Committee had called the committee together and presented our view of the case, and they were amazed at the statements and illustrations furnished by us.

I would further say I presented a schedule for their consideration. A messenger came from Washington to see your president, and between the two it was agreed that a revised schedule would be considered. A peculiar incident occurred in the interim: I was informed that the Government desired a revenue on pocket cutlery of $816,000, and was naturally amazed that the schedule presented by your president would, according to 1896 importations, give them a revenue of $815,000. The small difference would look to a person who had not investigated the matter as almost incredible.

I further found during my investigation that the proposed tariff would bring in a revenue of $1,740,000, or an excess of $924,000, which was more than double what was stated they were aiming at. It was some two weeks before conclusions and a compromise were arrived at, and some changes were necessarily made in the compromise schedule. Therefore, without any changes abroad, and according to 1896 importation, the income would still be some $400,000 in excess of what they stated was wanted, but as was naturally inferred by the Committee, and by more than ordinary inference on the part of the writer, prices would be reduced in Germany on many styles of pocket knives to meet existing conditions of the present tariff. There has been quite a revision also in the price of George Wostenholm & Son's goods to meet present conditions of tariff. Therefore the present tariff on cutlery will not show great hardship beyond what heretofore existed to the consumer. Taking this view of the case, it is but natural that your president should feel very comfortable over his efforts.

Revised Classification on Hardware: In my last report I suggested that a special committee be appointed with authority from this Association to take such steps as might be deemed expedient to induce railroads using Official Classification to make some changes in the classification of Hardware. Before it was necessary to appoint this committee, I learned a bill was before the Senate in which it was resolved that the Inter-State Commerce Commission

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be authorized to prepare and publish a classification of freight articles and rules, regulations and conditions for freight transportation, to be known as National Freight Classification.

I further learned that owing to the depressed conditions of trade during the two preceding years, the results had not been satisfactory to the railroad companies, and they were not likely to consider changes, at least prior to a revival in trade. Since July 1st, however, I have made an effort to have an interview with C. F. Gill, chairman of the Classification Committee, and also have had some correspondence with the Pennsylvania Railroad officials, but nothing in this direction has yet been accomplished. I therefore suggest that the same authority be given to the incoming president to continue this work, as the time now seems more favorable to accomplish what we desire.

Secretary-Treasurer's Report: I shall only refer incidentally to this report, nor have I the details up to date, but the balance of cash on hand was submitted to the members of the executive committee at their meeting, September 22d. At that time the balance on hand had been reduced, and would be about $1500 less than the balance on hand at the time of our last meeting. This is owing to the extraordinary demand made upon the treasury according to the consensus of opinion of our members as well as the executive committee, and conforming to these views our secretary has visited various local organizations scattered all over the country and as far west as the Pacific coast, not only in the interests of the local associations, but also in the interests of the members of our Association.

You fully understand that it would not be possible for the president to either absent himself or give the time which is deemed necessary, so it has been our aim to have our secretary-treasurer during the past year visit each member of our organization as far as possible, and for purposes which will be explained in his report.

Your president did, however, upon special invitation, attend the last meeting of the Southern Hardware Jobbers' Association, held in Savannah, Ga., and at the request of that Association not only read the paper which has recently been sent to our members on "What Constitutes the Cost of Doing Business?" but was given all the privileges of that Association, and therefore entered freely into all the discussions which came before that body.

The work during the last year has, therefore, you will notice, reduced our surplus somewhat. I have not, however, changd my mind in regard to this surplus to which I have referred each year, and I feel that our Association should always endeavor to conduct these expenditures so far as possible to conform to each year's receipts. Had we not had this surplus one year ago our efforts for the benefit of our members would have been restricted. I do not approve of the plan adopted by some other national associations of assessing the membership during the year. I know from personal observation where this is done it has been in some cases exceedingly unpopular.

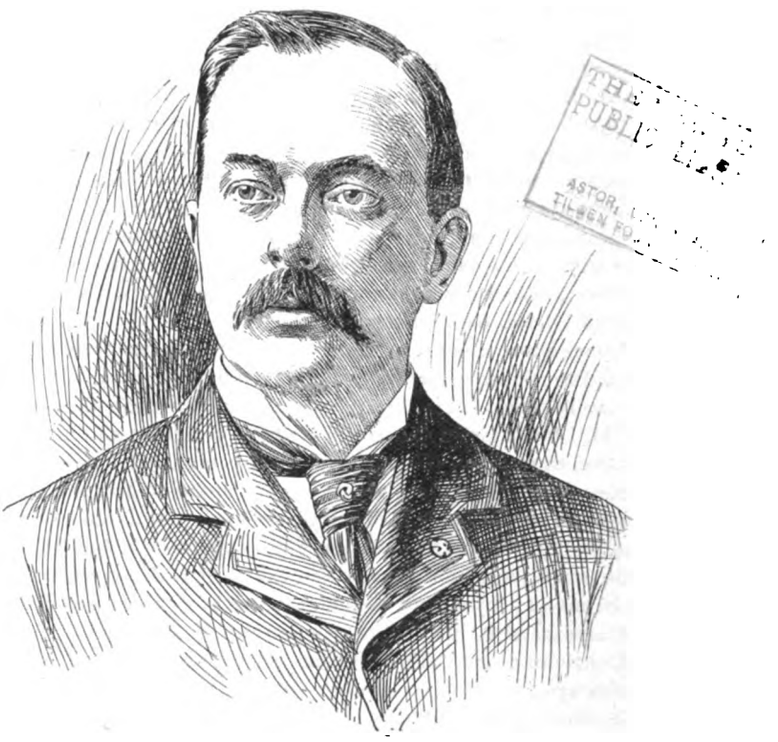
Your president and secretary-treasurer have always worked in perfect harmony with one high aim in view, namely: the general welfare and good of the Association.

Executive Committee: I shall not touch on the report which will be presented by the executive committee. You understand there have been some yearly changes made in this committee, but there has been no change in the unanimity of good feeling between the members themselves or between them and your presiding officer. The members of this committee have all been most prompt in giving their opinion on matters so frequently asked for through the mail, and in their various meetings have worked intelligently and conscientiously in the interest of our members.

I shall not at this moment touch upon the workings of the various other committees during this year, nor have the reports been sent in at this writing. According to our constitution and by-laws the reports of all committees shall be referred to the executive committee before the same shall be presented. I, therefore, leave it to this committee to pass upon these reports, and also the detailed workings of our Association.

Local Associations: We have made a strong effort to have each local association send a representative from their organization and address you during the convention. We feel that their reports will convince us that while competition does exist there is a desire in various sections to have competitors upon friendly terms and willing to consult with each other on matters pertaining to their general welfare.

Death of Alfred Tredway: During the past year and until within the last two weeks the cold hand of death has dealt most kindly with our members. But on November 5th, Alfred Tredway, senior member of the firm of A. Tredway & Sons Hardware Co., of Dubuque, Iowa, died at the advanced age of eighty years. He was one of the early settlers in that State, and highly esteemed and respected not only in his own city, but throughout the entire



VICE PRESIDENT H. H. BISHOP.

State. He lived a life of great usefulness, and the loss will be keenly felt not only by his own firm, but by all those who have come in contact with him.

Death of B F. Dunham: On Thursday, November 11th, we were pained at the receipt of a telegram from Frank L. Brown, secretary of the Pacific Coast Hardware & Metal Association, informing us of the death of B. F. Dunham, senior member of the firm of Dunham, Carrigan & Hayden Co., of San Francisco, Cal., and president of the Pacific Coast Hardware & Metal Association. The high regard in which Mr. Dunham was held is signified in the fact that all members of the Association of which he was president placed flags at half mast. Mr. Dunham was most highly respected and esteemed throughout the entire Pacific Coast, and his loss will be keenly felt by the members of his firm and by many friends who had become endeared to him.

Peace to his ashes.

And now, gentlemen, I desire to say we have arrived at the time and will soon arrive at the hour when I shall lay aside the robes of office with which you have so long and so kindly favored me. Two years ago I suggested a change in the constitution and by-laws, limiting the eligibility of

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the president for re-election. I then stated it might be unwise, or perhaps even disastrous, to make the limit of time one year, but I suggested the extreme continuous limit should not exceed three years. In this I have the courage of my convictions and opinions. I have now served you continuously for three years, during which time I have been most kindly treated by all the members of the Association. The members of your executive committee have been exceedingly courteous, nor has the past year been an exception to the rule. The various special committees appointed have been efficient and prompt, and the standing committees have cheerfully responded to all that has been asked from them.

When first elected to this office I did not realize the work that must necessarily fall upon the president. I have, however, conscientiously performed all duties, as far as in my power, to the best interests of our members. I have in all cases laid aside what might be looked upon as self-interest, or what might be looked upon as to the interest of any one, or any few members, but have worked for the general good of the whole.

I do not, however, think it wise for any one person to continue in this office longer than the time which I have served you, and must therefore ask that the nominating committee, which will be appointed, will not consider my name in connection with names that may present themselves. I must also ask that my name be not considered in connection with the privilege granted in Section A, Article 5, which reads: "After the report of the nominating committee it shall be the privilege of any member of the Association to place in nomination the name of any person he should desire, which name shall be added to those reported by the nominating committee."

I once more desire to thank our members for their continued kindness towards me during the past year. It has certainly been an incentive to the unwavering devotion which I have given to the work which you have so long entrusted to me, and if any errors of my creation have been made, they certainly have been of the head and did not originate in the heart. My interest in the laudable efforts and welfare of the Association will not diminish, but when, like yourselves, marching in the ranks, it will be my effort to be no less loyal and considerate to your president than all have been to me.

Gentlemen, from the bottom of my heart I once more thank you.

Following the address of the president, came the annual reports of the secretary-treasurer and of the various standing committees, as named in the official programme above, and then the introduction of the official representatives of other Hardware associations. The session then adjourned.

ENTERTAINMENT COMMITTEE REPORT.

Among the reports above referred to, was that of the entertainment committee, which was as follows:

The entertainment committee would report that the mayor has extended to the members of this Association a most hearty welcome. He has instructed the superintendent of police that, in case any of the delegates should in any way be overcome by the exhilarating air of Lake Erie, the button on their coat will identify them, and they will be promptly returned to the hotel without any annoyance or inconvenience to themselves.

We also have the strongest assurance from the proprietors of the Iroquois Hotel that they are anxious to make the sojourn of the delegates as pleasant in every way as lies in their power, and should any one feel neglected, if he will kindly report to the chairman of this committee, they will be greatly obliged.

Walbridge & Co. and Weed & Co. extend a most cordial welcome to the members, and trust they will make their establishments headquarters during their stay in the city.

We have arranged for a "Smoker" on Wednesday evening, at the Ellicott Club, commencing at nine o'clock, and it is earnestly desired that each one will feel that the show belongs to him and that the members will improve this opportunity for becoming better acquainted and all formality be laid aside and introduction unnecessary.

Thursday night having been set apart by your worthy president for meetings of different bodies, this committee has made no preparation.

Friday evening the banquet will be given in this hotel, commencing at 7:30, and we trust that the arrangements will prove satisfactory to you all.

When your enterprising and genial secretary was in the city a short time ago, he suggested that an opportunity be given the members to visit the Falls and inspect the greatest electric plant in the world. In accordance therewith the following arrangements have been made:

Train will leave Terrace Station Saturday morning, at time to be named later, and, on arrival at the Falls, the party will take the electric cars over the gorge road, returning to the Falls for lunch at the Tower Hotel. Afterwards there will be a drive around Goat Island, through Prospect Park, then to the power house, which must be of the greatest interest to every member present. For all these privileges we have been able to get a figure of $2 for each person, which covers every possible expense. All members desiring to take advantage of this opportunity will kindly notify the chairman of this committee, or Harry Walbridge, as soon as possible, that proper arrangements may be made accordingly.

The committee stand ready to give any information, or offer any assistance in their power to the members of this Association.

Hobart Weed, chairman; Harry Walbridge, Chas. H. Turner, Geo. J. Laighton, Griff. D. Palmer.

The full report of the secretary-treasurer is as follows:

ANNUAL REPORT OF THE SECRETARY-TREASURER.

To the President and Members of the National Hardware Association. Gentlemen: Another year has rapidly passed, bearing with it the record of opportunities presented, projects undertaken, duties performed and purposes accomplished. It has necessarily been a period of ceaseless activity on the part of the corresponding and recording scribe of your vigorous and progressive organization, the journeyings of the year covering 30,455 miles, and consuming 101 days and nights. Ninety-one nights have been spent as the guest of the Pullman and Wagner Palace Car Cos., of course at your expense. During these travels your secretary-treasurer has been in and through forty-two of the forty-six States of the Union. In addition to these States he has been frequently in the state of anxiety, state of expectancy, state of happiness, state of misery and a good many other states not now necessary to mention.

He has traveled from the rock-bound coast of Maine to the noble Pacific, where the Golden Gate stands ever open to the traveler from the Orient (unless he be a Chinaman). He has visited the Hardware interests from that land where daylight disappears at about midnight, to that delightful country where the ground, at any season of the year, has but to be tickled with the hoe to ripen into a bountiful harvest.

It has been his constant aim to meet every official requirement, to fully realize the responsibilities of the position assumed, to keep burning brightly in the hearts and minds of a widely scattered yet homogeneous and more and more united membership, the fires of enthusiasm which have so brilliantly and hopefully characterized each of our annual gatherings, to be a watchful medium of reliable communication, whereby the interests of one is made the concern of all, to push forward (by all legitimate means) the work to which all are zealously committed.

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The correspondence of the year has been voluminous and is, we believe, productive of good results. Forty-three special letters have been written you, containing 102 pages, in all a volume of 30,668 words. Besides these, the president has communicated with you through the secretary's office ten times during the year, thus adding twenty-three pages to the volume. Inasmuch as his wisdom so far excels that of your secretary-treasurer, it is scarcely fair to count the number of words, as the value per word is far disproportionate. He has also corresponded with the executive committee an innumerable number of times in your interest.

A great number of communications have been addressed to the members of the Association, embodying inquiries and suggestions upon important subjects hitherto earnestly discussed and others which must attract attention in the future. There are many serious problems awaiting intelli-



SECRETARY-TREASURER T. JAMES FERNLEY.

gent consideration and wise decision. We are told, upon the highest authority, that in a multitude of counsellors there is safety.

The cumulative wisdom, based upon life-long experience and thorough study of business methods, of the influential and increasing membership of The National Hardware Association should lead the way to equitable adjustment of all trade contentions and abundant prosperity for all concerned.

Personal visitation. At the first meeting of the executive committee a sentiment seemed to prevail that during the present year our united labors should be more in the line of introducing improved business methods. With this end in view the president of the association, early in the year, addressed the members of the executive committee, asking their approval of a plan which involved an extensive tour on the part of the secretary-treasurer.

The committee seemed to be a unit on this subject and we have, as already stated, spent a large part of our time in the field. In this way personal visits have been made to nearly all of our members and in many cases we have visited the same houses two or three times.

Local meetings: After interviewing separately the members of the National Association in the places visited it has been my unvarying custom to have a meeting of all the members in that city, even where there would be only two jobbers located. At these meetings many matters have been discussed which were of a local trade nature, and those taking part in a free interchange of views have separated with a much more kindly feeling towards one another than existed before they were thus brought together. January 21st we held an interesting and profitable meeting with the jobbers of Pittsburgh and on the following day in Cleveland, and on February 10th we attended a meeting of the New York State Jobbers' Association. February 17th we divided between the members of our association in Boston and Worcester. Between April 2d and 12th we visited the jobbers in Atlanta, Charleston, Jacksonville, Montgomery, Birmingham, Savannah, Knoxville, Nashville and Louisville. In nearly all these cities meetings were held, local difficulties adjusted and much progress made along the lines laid down by the executive committee. April 23d there was a meeting of the jobbers in Toledo and also one of a similar character in Detroit. April 25th a meeting in Cincinnati was likewise attended, a most encouraging spirit being everywhere manifested.

To the West and Far West: May 31st we started on a trip which extended over five weeks, the objective point being the Pacific Coast, Davenport, Chicago, St. Paul, Dubuque, Des Moines, Minneapolis, Omaha, Sioux City, St. Joseph, Kansas City, Denver, Salt Lake City, San Francisco, Los Angeles, Portland, Seattle and Tacoma, were included in this itinerary. In all of these cities, where two or more jobbers were located, satisfactory meetings were held and subjects connected with the work of our organization were discussed.

In some places jobbers who had not connected themselves with our Association were invited to confer with those who were members. We found everywhere prevailing the very highest opinion of the work of the National Association, and our opinion was kindly sought on all current questions of interest to the Hardware trade.

A useful device. In order to have all questions freely discussed we inaugurated a system of having a "Question Box," into which each one present had the privilege of placing any question on business methods upon which they might desire an opinion. At a given time we withdrew these questions and answered them in order, explaining that we did not pretend to have any more innate knowledge than others, but inasmuch as the Secretary of the National Association travelled from city to city and had the opportunity to examine into the business methods of the most progressive houses of the country, he might be in a position to satisfactorily answer questions and throw light upon interesting subjects, acting as a sort of individual and semi-official clearing house of information. We found this idea extremely popular. In some Conventions, after everything had been talked about that seemed of interest, the "Question Box" would develop food for much greater discussion.

In many ssctions of the country it is highly important that these local associations be kept up. Yet if there is not some effective medium through which new life can be enthused into them periodically, they are likely to be of short duration.

Pacific Coast Enterprise. One of the most interesting and profitable of the meetings attended was the Second Annual Convention of the Pacific Hardware and Metal Association, held in Portland, Oregon, June 17th to 19th. This promising two-year-old offspring of the National Association is already one of the most enterprising and vigor-

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ous organizations in the country. Its entire membership is thoroughly imbued with progressive ideas. Live questions of the hour were discussed with inspiring freedom and earnestness. The official representative of the parent association was received literally with open arms, and his well known capacity of utterance on trade topics severely taxed and his modesty sorely tried. Warm hearted greetings were extended to you and your officers, and a return message from this Convention you may rest assured will be most cordially appreciated. The men of business of the Golden Coast are models of intelligence, courtesy and fidelity.

Fraternal Relationship. In addition to visiting the membership, your secretary-treasurer, December 8th, called upon the metal jobbers of New York city, in company with Messrs. Hayden, Gummey and Strauss.

December 9th the meeting of the Shovel Association was attended.

December 19th the Chain Manufacturers were met with in Philadelphia.

February 10th the Revolver Manufacturers, in session at Worcester, Mass., were pleasantly called upon, and on March 10th the Shovel Manufacturers, at their annual meeting, in New York city.

All these well known trade organizations manifested the kindliest spirit towards the National Hardware Association.

Reference may appropriately be given to the correspondence which the secretary-treasurer of your association engaged in early in the year with the Hon. F. G. Coates, of London. He desired some information regarding the workings of our organization. The formation of the National Hardware Association in Great Britain was contemplated.

Our business rivals on the other side of the great pond have been quick to discern the manifest advantages arising from an organization of their strongest and most intelligent forces.

A communication received from the honorable secretary of this organization, which was formed in July of the present year, will be presented to the Convention which will display the kind spirit in which they make their acknowledgments of the benefits they have received from our organization, although such a vast expanse of water separates one from the other. Proper acknowledgment will in due time be made to this communication.

Words cannot adequately express the kind treatment which I have received from the membership, the efficient aid rendered by the Executive Committee, and the wise counsel and advice of the President of the Association.

He has given me his time for your interests freely, regardless of his personal interests, and if your secretary-treasurer has succeeded during the past year in accomplishing anything for your interests it is largely due to the fact that a wise, safe and judicious counsellor was ever ready to advise and direct.

With grateful appreciation of many courtesies extended, confidence bestowed and timely assistance constantly rendered in the performance of my duties, I am,

Sincerely yours,

T. JAMES FERNLEY, Secretary-Treasurer.

THE AFTERNOON SESSION

of Wednesday convened at 2 P.M. A paper on the "Importance of Each Jobbing House Having a Minimum Selling Price," was read by J. T. Jenkins, of the Gray-Dudley Hardware Co., Nashville, Tenn. A discussion followed, opened by Leon C. Carter, of the Dana Hardware Co., Boston. The opening of the question box, and general miscellaneous business followed.

A NOMINATING COMMITTEE

to select officers for the coming year, was appointed during the session of Wednesday, consisting of the following gentlemen:

John Freeman, Detroit, Mich.
Leon C. Carter, Boston, Mass.
Richard W. Shapleigh, St. Louis.
W. D. Taylor, Cleveland, Ohio.
A. D. Clinch, New York City.
A. B. Palmer, Savannah, Ga.
J. A. Warner, St. Joseph, Mo.

CARING FOR THE LADIES.

As a number of the delegates were accompanied by their wives, Buffalo hospitality embraced them all, and the ladies were most hospitably entertained, while the gentlemen were undergoing wear and tear of mind at the "Smoker," and other business sessions. In charge of Mrs. E. C. Neal and Mrs. Harry Walbridge, they were taken for an extensive drive about the city on Wednesday, followed by a lunch at the Ellicott Club. On Thursday Evening, they attended a concert by the Symphony Orchestra, at Music Hall, and on Friday were shown through several of the public institutions of the city, followed by an evening at the Star, to see and hear Sol Smith Russell and his company.

THE SMOKER

at the handsome and spacious room of the Ellicott Club on Wednesday night, was a great success, and was attended by the greater part of the convention. There was music, vocal and instrumental; refreshments, solid and liquid; and speeches, solid and otherwise. The rare but hidden musical ability of Hobart Weed had found expression in the preparation of a programme of vocal gems, commencing with "My Country, 'Tis of Thee," and running around the circle of the emotions, to "All Coons Look Alike to Me," and these were sung by all present at various times in the evening. Mr. Weed acted as toast master, band-master, drum-major and ring-master, and, for a small man, kept things moving in a lively manner. He introduced the Hon. Edgar B. Jewett, mayor of Buffalo, who made the visitors welcome to the "Electrical City," in a short, but expressive speech.

MAYOR JEWETT'S WELCOME.

Members of the National Hardware Association: In the name of the people of the city of Buffalo, whom I have the honor to represent, I extend to you a most cordial and hearty welcome. Great honor has been done us by this Association in selecting this city for your convention, and we are proud to have you with us as our guests.

The giant strides made by our city in population, commerce and manufacturing during the last decade, have excited the wonder and admiration of the whole country, and it is more than a pleasure to find you assembled here from every corner of this broad and glorious land, viewing with your own eyes the many evidences of our prosperity, and taking back to your homes the almost fairy-like story of the "Greater Buffalo," together, we hope, with pleasant memories of your sojourn here.

All that this city is to-day is the result of the labors of a comparatively few years. Less than a century ago, the land now built up with modern office buildings, busy factories and comfortable homes, was a wilderness. Much less than a century ago this city was the railroad terminal to the West; to-day the Queen City of the Lakes is a gateway to the sea.

Our receipts at this port, of grain going East, for this year, will exceed two hundred million bushels, which is more by many millions than any record this city has made so far. This places Buffalo as one of the largest ports in the world. It is only exceeded by the commerce of London, Liverpool, New York and Chicago.

One fact I wish to call your attention to and that is, that we have the best lighted business streets in the world,

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which you will notice if you are able to see after leaving this smoker.

Our citizens are quiet, thrifty and industrious, law-abiding and liberty-loving.

They are conservative in business affairs, but open-hearted and most hospitably inclined toward the strangers who are within our gates.

It is a city of individual homes, and not of tenements.

It is a city of comfort, and not of show; of sincerity, and not of sham; of neatness, cleanliness, sobriety and health.

Again I extend to you, most cordially, the freedom of the city, hoping that you will be pleased with our humble efforts to entertain you, and that you will carry away pleasant memories of your visit to Buffalo, and a desire to come again at some future time.

There was a solo by T. James Fernley; a recitation, of no small dramatic ability, from President W. W. Supplee; a speech from Walter J. Shepherd; a song from the Philadelphia Quartette, and a vaudeville entertainment from various professionals.

Mr. Fernley's song was a work of art—something like a crazy-quilt in texture—and had been put together by himself, Hobart Weed, and several other carpenters and joiners, during a session of several hours. There were some sixty-one verses, no two alike, and each one a little worse than the others. The chorus was borrowed from a well-known song, and was therefore quite good. Here are samples:

"Now, fill the jovial bowl again,
And drink to good Supplee!
In all the world of rain or shine,
There's none so fine as he.
He deals in Hardware when he's home,
Talks Association when away;
There's none more true, away or home—
He's the popular man of the day!

Bindley comes from a smoky town
Where Lupton has full sway;
Where Reitz puts on a buyer's frown,—
Logan & Gregg not far away.

Another man, who Foots the bills,
Is very fond of Files,
And captures every customer,
On whom his visage smiles.

And Hobart Weed, good Hobart Weed,
He isn't very tall,
And though done up in package wee,
Of him there's nothing small.
Now sing I of a pious man,
To be like him I'd wish,
Whose fine ecclesiastic name,
Commences with a 'Bish.'
He wears no mitre on his brow,
Carries no gilded cane,
And though he's 'Vice' he has no vice,
From which he should refrain.

Mr. Fernley got out of the room alive.

It was a good natured gathering.

THURSDAY'S SESSIONS.

The Thursday session of the Association opened bright and early, with everybody in shape for business. After the usual miscellaneous business and the opening of the question box, F. R. Boocock was introduced, and delivered an address full of valuable suggestions and information to the members of the Association, outlining methods by which the credit department of each great establishment could be improved. The address was so well received that a resolution was offered by H. C. Marshall, of Duluth, to the effect that "the thanks of this Association be extended to the gentleman and the Association he represents for the very able paper he has presented." R. A. Kirk, of St. Paul, moved an amendment to the effect that "We give the hearty endorsement of this Association to the National Association of Credit Men." The resolution, as amended, was unanimously adopted.

In the afternoon, a paper entitled "What is the Proper Medium through which Hardware should be distributed?" was read by D. C. Delamater, of Freeman, Delamater & Co., of Detroit, Mich. The discussion upon this, with the question box, etc., occupied the rest of the afternoon.

On Thursday evening, there were several pleasant gatherings of gentlemen connected with the Association and their guests. A meeting of the New York State Hardware Jobbers' Association was held, but little business of a formal nature was presented. There was also a meeting of the metal jobbers connected with the Association.

One of the most pleasant incidents of the evening was an elegant dinner given by James D. Foot, of the Kearney & Foot Co., New York, to a number of his friends, journalistic and others. This dinner was served in a small dining-room of the Hotel Iroquois, with Mr. Foot presiding at one end of the board, and T. James Fernley occupying an equal post of honor directly opposite. A most generous and elegant menu was served, and two hours were occupied in the discussion thereof, after which the meeting adjourned, and with Mr. Foot still as their genial host, spent a very pleasant evening in witnessing the entertainment provided by Sol Smith Russell and his company at the Star Theatre.

FRIDAY'S SESSIONS.

Business of considerable importance was transacted at the sessions of Friday. It was first decided that the next meeting of the Association should be held on the third Wednesday of November, 1898, at Milwaukee, Wis.

The election of officers was the next thing in order. In his annual address, President Supplee had spoken very emphatically in regard to his retirement from the office which he has filled with such signal ability for the last three years. Mr. Supplee was thoroughly in earnest in his wish to retire, and the Association seemed to have been equally determined that he should continue in the office which he has so ably filled. The report of the committee formulated this wish upon part of the Association by the presentation of Mr. Supplee's name, and it is needless to say that he was unanimously re-elected in face of his expressed wish. As Mr. Supplee is a gentleman who is always ready to do his duty in whatever position he may be placed, and as he could not very well set up his personal opinion against the combined wisdom of the Association, he was compelled to see himself again made the presiding and executive officer of this great Association. The full list of the officers, as reported by the executive committe, and elected, is as follows:

President, William W. Supplee, Philadelphia, Pa.
First Vice-President, H. H. Bishop, Cleveland, Ohio.
Second Vice-President, Brace Hayden, New York.

EXECUTIVE COMMITTEE.

F. P. Strong; Farwell, Ozmun, Kirk & Co., St. Paul, Minn.
Theodore Buhl; Buhl, Sons & Co., Detroit, Mich.
John Bindley; Bindley Hardware Co., Pittsburg, Pa.
William Chamberlain; Emery-Waterhouse Co., Portland, Me.
H. S. Blossom; W. Bingham Co., Cleveland, Ohio.
R. W. Shapleigh; A. F. Shapleigh Hardware Co., St. Louis, Mo.

The only changes in the executive committee from that of last year is the promotion of Brace Hayden to the vice-presidency, and the leaving out of Col. Morris Belknap, of W. B. Belknap & Co., Louisville, Ky. Colonel Belknap sent a special request to the Association that he be omitted from the committee for the present year. The addition of Messrs. Blossom and Shapleigh will add to the strength of this committee.

In the afternoon, the introduction and installment of officers occurred, after which miscellaneous business was disposed of, and the session of the Association came to an end.

It was the general opinion of those present that the meeting had been one productive of gratifying results. Upon this occasion, as never before, the closest possible

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attention was paid to the discussion of business methods, with suggestions as to ways by which they can be improved, and the best practical results secured. The members entered into the spirit of the discussions with interest, and it would be speaking very poorly of the fertility of the field upon which this good seed was sown, if there were not many practical and direct results.

THE ANNUAL BANQUET.

The annual banquet of the Association was given on Friday evening, in the main dining-room of the Hotel Iroquois. As the gentlemen entered the room, they were greeted with a scene of beauty, long tables being elaborately decorated with flowers, and everything in keeping with the festal nature of the occasion. A very handsome combined programme and menu card had been prepared, the cover of which was of a very artistic character printed in colors. A string orchestra furnished music during the evening.

It was nearly eight o'clock when the gentlemen entered the dining-room, each one having a diagram which showed the exact location of his seat.

When they were all in place, President W. W. Supplee, who presided during the evening, rapped for order, and the whole audience stood still while singing the old doxology, "Praise God From Whom All Blessings Flow." They were then seated, and the following elaborate menu was discussed:

MENU.

Massachusetts Bays.
Celery. Old Amorosa.
Green Turtle, Americaine.
Kennebec Salmon, Hollandaise.
Cucumbers. Potatoes, Parisienne. Lieblfraumilch.
Varies. Varies. P. A. Mumm & Co.
Filet of Beef Pique, Fresh Mushrooms.
Green Peppers, Farcie. String Beans. Pontet Canet.
Vol-au-Vent of Chicken, a la Reine.
Gem Peas. Moet & Chandon
Sorbet Iroquois. White Seal.
Quail Sur Canape aux Cresson.
Lettuce and Tomatoes Mayonnaise.
Vanilla Ice Cream. Jelly Macedoine.
Assorted Cakes. Bonbons. Fruit.
Fromage de Brie and Roquefort. Coffee. Cigars.

At the conclusion of this portion of the exercises, the president arose, and calling the gathering to order, introduced the second, or literary portion of the programme, a full list of which is as follows:

TOASTS.

GREETING, - - - - - The President.
"BUFFALO," - - - - Herbert P. Bissell.
"SIGNS OF THE TIMES, - - - R. R. Williams
"OLD GLORY," - - - Gen. C. W. Tillinghast.
Long may she wave in all the ports of the world.
SONG AND CHORUS, - - - "Star Spangled Banner."
"CONFESSIONS OF AN EDITOR," - - James H. Kennedy.

PRESIDENT SUPPLEE'S ADDRESS.

The president was taken somewhat at a disadvantage, as he had expected the honor and pleasure of introducing some other gentleman as the presiding officer of the evening. He rallied, however, with his usual facility, and spoke as follows:

Gentlemen of the National Hardware Association and Invited Guests: When I stated some two months ago to the members of our executive committee, that upon this particular occasion I must be excused from making any after-dinner remarks, I was in earnest and meant all it implied, and it was quite noticeable how cheerfully they excused me. And when the same committee suggested that the president act as toast master I cheerfully agreed, knowing full well my three years of service would entitle me to release, and I thought I knew equally well that the mantle of president would be thrown upon other shoulders.

Now I do not pose as one of those after-dinner speakers "always on tap," with one or two unspoken speeches in their pocket, nor one of those for whom you have only to touch an electric button and in answer can have an electrifying and pyrotechnic display of fireworks.

The manufacturers and invited guests who are present may not realize the fact that having presided over the convention for three successive days the sound of my voice must naturally be like the buzzing of a mosquito, and the effect of further remarks much like a bite from the same insect at the sea-shore in mid-summer.

The few remarks that I had thought over in my mind were all pertaining to a retiring president and a new incoming president, and I be permitted to flutter for a few brief moments like a butterfly among the delightful foliage of early spring, and strut for a few moments looking at the gorgeous surroundings, and then bid farewell to all past greatness. But our members have decided differently, and have further honored me (notwithstanding my protest) as your president for another year. I am duly conscious of this honor, and once more kindly thank them.

I do desire to say, however, that your president is not a one man power, nor would it be safe for anyone to assume for a moment any such thoughts. I desire to assure you I have never entertained them. Your executive committee do not permit the president to usurp their prerogatives, but expect him to fully consult with them on all important matters, join in their councils, ask their advice and abide by the voice of of the majority. I admit that you shoulder him with a large amount of responsibility, which you expect him to conscientiously and judiciously use for the best interests of our members.

Associations of similar intent to ours, while of comparatively recent creation here, the annals of English history show existed in that country as far back as 1600. The Marquis of Salisbury, in recent remarks at the Lord Mayor's banquet, stated that commercial and business considerations were far over statescraft, and that England's aim was to extend commerce, trade and industry, throw open as many markets as possible and bring together as many consumers and producers as possible.

Almost simultaneously with the above remarks, one of the most distinguished statesmen of our day recently stated that in the dark days of 1776 soldiers were needed and quickly responded and fought for our flag and our country. After liberty was attained statesmen were needed in the formation of our Constitution and in matters incident to the same, but at the present day business men in all departments of trade and commerce are what is necessary and essential to the prosperity of our country.

Referring for a moment to this beautiful city of Buffalo, where the towering branches of grand old trees meet in the center of two of the most beautiful streets in the world, bordered by residences of architectural beauty and terminating in a grand park of over 900 acres and a park driveway of nineteen miles. His Honor, Edgar B. Jewett, Mayor of this city, is authority for the statement that the population of Buffalo has increased in the last seven years over one hundred and forty thousand, that within a radius of four hundred and fifty miles of Buffalo, that is drawing a circle with Buffalo in the center, that within that circle live *one half* of the inhabitants of the United States, or over thirty-five million people, and within that circle are one hundred and thirty-five cities with over twenty thousand inhabitants, and from the most remote city you can reach Buffalo in a luxurious sleeping car in one night.

We may therefore feel considerable pride in the selections we have made for our annual conventions, as this city compares very favorably with those selected for former meetings, Philadelphia, Pittsburgh and Cleveland.

It is now with the greatest amount of pleasure that I introduce to you the first speaker of the evening, a gentleman who stands pre-eminently high as a lawyer, not only in this city but throughout the country, and one who holds

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several high positions of responsibility and trust, Mr. Herbert P. Bissell.

In the absence of the mayor, the toast of "Buffalo" was eloquently responded to by Herbert P. Bissell, a member of the Buffalo bar. His speech was full of hits and good points, and much information concerning the city which he had the honor to represent.

The next speaker was R. R. Williams, the Hardware editor of the *Iron Age*, who spoke upon "Signs of the Times." After alluding to the circumstances under which the association met, the necessity for organization, and the advantages which resulted from the cultivation of fraternal feelings, Mr. Williams spoke of Great Britain and her colonies and dependencies as a great aggregation of commercial interests, referring to the extent of her possessions and the enormous volume of her commerce. He emphasized the point that the extension and maintenance of the British Empire was not secured so much by force of arms as by means of trade, this being the secret of England's growth and power. In closing he touched upon the resources of this country, its pre-eminence in manufacturing, and the indications which point to its speedily occupying a commanding position in all the markets of the world.

The next speaker was Gen. C. W. Tillinghast, adjutant-general of the State of New York, and also a member of J. M. Warren & Co., of Troy, N. Y. His speech, which was an eloquent presentation of the extension of American trade under the protecting folds of the star-spangled banner, known upon the toast as "Old Glory," was, in full, as follows:

SPEECH OF GEN. TILLINGHAST.

It is always interesting to delve into a subject that touches closely our national pride and supremacy, one that is as far reaching as the East is from the West, as the farthest known north is from the most southern of the discovered lands. And I find the subject upon which I am to speak tonight especially so, because of its close connection with our own business career, because the vast increase of exports that yearly leave our shores, amounting in the last twelve months to some two hundred and twenty-five millions of dollars, consists largely of machinery. Surely in this, we as iron and steel merchants, are deeply interested, and we can well turn our thoughts for a moment tonight toward the building of the ships that bear this wealth from our ports, and to the Stars and Stripes that should float wherever wind and sail carry those ships.

I am informed by the secretary of our association that Colonel Belknap, who was charged with the selection of the toasts for this banquet, was prompted in the naming of mine by the fact, that in his recent travels abroad, he had so seldom seen our flag. Hence, the beautiful thought came to him of the appropriateness of blending, as the artist does the colors of a painting, that both delights the eye and softens the heart, of blending, I say, into one toast the idea of commercial supremacy and the emblem we all love, that standard of our United States, "Old Glory."

As soon as I heard of it I sympathized fully with the sentiment because I am so thoroughly a merchant, that I would have the merchant marine of my country all *prevading*, and so loyal and enthusiastic an American, that had I my way, our ships would rest in every port of the world. Then, too, it recalled an incident that so stamped itself on my mind as ever to remain in memory. It was a simple incident, so simple that to many the repeating may seem boyish, yet oft times it is the homely, quiet sayings of a loved one, or the simple influence of our early home life, that make the strongest impressions and influences more, yes far more, than the apparently greater ones, the forming and shaping of our after lives.

It was just twenty years ago, and I had been spending several months in the south of France, when one afternoon, in driving along the famous road that skirts the Mediterranean, a sudden turn brought me in sight of the harbor of Ville-Franche. Then for the first time in my life I could realize the feelings of that wandering poet, when he penned the words of earth's sweetest song, "Home Sweet Home"; for there below, in the quiet waters of the port, lay a war ship, grim messenger of aid to "sufferers" and of vengeance to "offenders," and best of all, from her stern floated an ensign that I pray will ever bear peace, where peace can be had with honor, and dread war, where peace and honor have become divorced; it was our flag, "Old Glory."

Strange indeed it must seem, when we take time for thoughtful investigation, that this grand and wonderful country, with its eight thousand miles of sea coast, its marvelous inland lakes, almost seas, its harbors equal to any in the world, its system of light-houses, light-ships and buoys; its corps of brave and hardy men, ready at any hour of day and night to risk life, that those who "go down to the sea in ships" may be saved.

Strange indeed it must seem, that with so much to stimulate and encourage our carrying trade on the seas, the subject of a merchant marine should receive so little encouragement from our Government, and create so small an interest among our people. The people, apparently, have forgotten the enormous revenue which year by year they have been paying into the coffers of other nations, and especially Great Britain, to whom alone in the year just ended, they gave the enormous sum of three hundred millions of dollars.

Sir Walter Raleigh said: "Whoever commands the sea, commands the trade; whosoever commands the trade of the world, commands the riches of the world, and, consequently, the world itself." This sentiment has successfully ruled Great Britain for years, until now she carries fully seven-tenths of the ocean-borne commerce of the world, and her power and supremacy on the sea is the immediate result.

We point with just pride to the wonderful achievements of our people on the land, but we seem to have entirely lost sight of the added power among nations, and the increased prosperity that might have been ours, had we encouraged our men and boys to seek it in our ships.

Statesmen, in the early life of our country, realized better than we, all that it meant for a nation to be rich in its ocean power. They knew what it meant to have our flag seen in foreign ports; they knew that a prosperous merchant marine, trained men, who would be invaluable in the defense of their country, should their land be called upon to arm her sons for war. They realized that neglect was inexcusable. And as Thomas Jefferson so aptly put it in speaking of our merchant marine, "as a branch of industry it is valuable, but as a resource of defense essential." Those founders of our country were wiser far than we have been, for in the bright and peaceful days *they* built bulwarks to protect them from the storms of the winter.

And when we think of all we have done, all that we have accomplished for internal commerce, by our miles of canals and our vast railroad systems, it should cause us to halt and consider well, whether we have not neglected a field broader than the land we have been tilling with such infinite care, and whether we have not left for other nations the opportunity to reap what the Founder-of-all intended should be part of our heritage.

From the days when Egypt was all powerful, commerce and navigation have been considered the avenues to wealth and power. Spain lost most when her commercial strength on the seas waned, and England, realizing all this, protected and encouraged, not only her merchant marine, but

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insisted that her ships should be built at home, even though the cost of construction, because of the scarcity of timber, when wood was used, made the purchase price much greater. She has forged ahead while we have lagged behind.

From the year 1792, when our government first offered a helping hand to its infant ocean child, until 1828, when the child had become so strong as to carry ninety per cent. of all her commerce, the United States took a coveted position among the great nations of the earth. Since the day when protection was withdrawn, we have gradually but surely fallen, until now our ships carry a beggarly eleven per cent. only of the merchandise that leaves our shores.

England has encouraged, we have discouraged, one of our greatest sources of national wealth.

But let us turn for a moment from the wreckage thrown up by the seas and think of the grand achievemements that as a nation we have accomplished on land. Brains, industry, steam and electricity have so surrounded and encompassed us that our men-of-war, equal in their class to any manned by foreign crews; our buildings, wonders of architecture and height; our locomotives that whirl us through space, have made the name, "American," famous.

And to-day we think with awe of the trained and fearless mind that planned the structure that makes one the two largest boroughs of our great metropolis.

We look with wonder at the skill of the engineers who controlled the Mississippi with those great levees.

And the world stares with astonishment when it realizes that the ingenuity of man has compelled the almost irresistible power of our great Niagara to yield to him and do him service.

With such a record of success, and the knowledge that we are daily instructing the nations of the old world, our supremacy on the sea will again be assured, if we but decide among ourselves as a people, that we will carry the flag of our country into every harbor of the world.

As merchants, it would be difficult to find a wider field for useful labor than the neglected commerce of the sea.

As American citizens, who have inherited a legacy from brave and hardy forefathers, men far-seeing, fearless and devoted to their country, we cannot find a work that is more worthy of our best efforts, than to pick up and strive to splice the rope that long years ago they wove and that thoughtless years of success have snapped asunder.

True, we cannot all advocate its value on the floor of Congress nor in the halls of legislation, but as the pen is oft-times mightier than the sword, so must public opinion, if intelligently directed, compel action that has been too long deferred.

And, as a dash of sentiment, which is always so welcome to a true man, I give you this thought, Our Flag, whether in peace or whether in war, still Our Flag.

At the conclusion of his speech, which was most generously applauded, the audience arose and sang with stirring enthusiasm the glorious old song, "The Star Spangled Banner." The manner in which it was rendered showed that the words, "National Hardware Association," also stand for "Patriotism" and "The Old Flag."

The next toast, which was "The Confessions of an Editor," was responded to by James H. Kennedy, editor of *Hardware*, New York, who spoke as follows:

"THE CONFESSIONS OF AN EDITOR."

Mr. President, and Gentlemen of the National Hardware Association: As I sat here this evening, studying this artistic programme, and listening to the able gentlemen who have so entertainingly instructed us, the thought has occurred to me that the double-headed vegetarian committee having the preparation of the evening's exercises in hand—the little Weed of Buffalo and the rotund Fernleaf which grows upon the banks of the Schuylkill—missed something in the educational life of that little red schoolhouse, of which both speak with such patriotic eloquence—and that was the chapter in their arithmetic which treats of *proportion*.

The Buffalo plant said to me in the assignment of this toast, "Now get up young man, and own up to it all. Tell us the why, the when, and the how. Confess, for once in your life, the errors and shortcomings of your profession." Then the Philadelphia end of the contingent telegraphed me, fearing that the mails would be too late, "We will give you just three minutes, and if you don't quit at the end of that time, we will turn the band loose upon you."

Well, gentlemen, this is a serious dilemma in which to place any man. Confess the sins of twenty-five years and of a profession whose members are discovered in every hamlet between California and Maine, and then to give him but three minutes in which it is to be done! It would take me three times that long to confess the sins of brother Williams here, to say nothing of my own. I mean those of his of which I have knowledge, for the legal law of equivalents is, that when one possesses so many, and such conspicuous virtues, he must have some choice bits of human nature in reserve, to make it even.

If I only knew the exact things about which confession might be made, the task would be much easier. There is one form, however, that comes with readiness to us all. I will illustrate it by a bit of true, but pathetic history, that has been often related to me in the privacy of my own home by brother Clinch—there is but one Clinch—the Pooh-Bah of the New York Hardware Club. In years gone by, when the late Benjamin F. Butler and young Clinch were little boys together on the old ancestral farms of Massachusetts, they were one day playing with a little Bradley axe. After they had slashed their way through the orchard, and gone into an adjoining field, little Alfred cut into a small chestnut tree that was his father's special delight—and we all know that Clinch has been cutting into chestnut trees ever since. When the father came home he saw the ruin that had been wrought, and took down the strap and said: "Alfred, who cut my little joker?" And Alfred looked up with that soulful gaze, that has held so many of us spellbound when he was giving out tickets and taking cash for the dinner of the Hardware Club, and said: "Father, I cannot tell a lie. Ben Butler did it."

Thus, gentlemen, it is very easy to confess the sins of someone else. The world has been full of sorrow and bitterness, backbiting and hatred, because of this willingness on the part of so many of us to bear our neighbor's burdens. I am reminded of the old man who sat in church that morning, when the minister was discussing the various sins to which humanity is heir. As he touched upon the sin of drunkenness, an old fellow who sat in the front pew began to wiggle about, and finally, unable to stand it longer, jumped up, and said, "I have got to own up, Mr. Minister, I know you are hitting me!" He then sat down, and the dominie passed on to the other heads of his discourse. When he reached the sin of hypocrisy, the old man again began to wriggle, and finally, with his finger extended to the deacon who sat in the next seat, he shouted "Get up, Deacon Jones, get up. I did."

Grover Cleveland, when the heat of a great campaign was upon him, telegraphed to a friend: "Tell the truth about it," and Grover Cleveland has twice been elected president, and stood a good chance of another term. George Washington got his start in life by telling an unexpected truth at a trying moment. So have many other men told the truth in a way that came as a surprise to those who knew them best. They had been pushed into a corner and had to.

Speaking of truth telling and its contingent virtues, let me say here seriously, gentlemen, as a deserved tribute to American manhood, and especially to American business men, that I believe that truth telling, and honesty, and

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modesty, and clean living, and clean thinking are more usual among men than they were a generation or so ago. I believe that men were never more honest in their business dealings in the history of the world than they are today. Not merely because honesty is the best policy, which it is, but because that with advanced culture and increased education, they have come nearer to the great fundamental truth that man should do right because it is right; not so much through the stern commands of the Ten Commandments, as because they have come to live nearer and nearer to the sweet truths of the Sermon on the Mount.

The honest man, the upright man, does right because he likes to feel that an honest man is the best company he can keep; because he likes to be in good company when he is alone; because he likes to associate with a pure man day and night, in his lying down and his rising up, and when in the silent watches of the night he is alone with his God and his own naked soul.

But I am getting away from my text.

There was a time when the toast of "The Press" was given a place of formal honor upon all programmes on occasions like this, with that to "The President," "Our Country" and "The Ladies," God bless them. I am glad to see that that time has passed away. The press has been relegated to its proper place with the other professions and lines of business, and now it seems that upon an important occasion like this, opportunity has been found to bring it to the bar of public opinion, where it is told to own up, like a criminal at the bar.

There may be a reason for this. Yellow journalism may have had something to do with it. But I want to say to you, gentlemen, that if there were no yellow readers there would be no yellow newspapers. The demand makes the supply here as it does in nuts and bolts and nails and shovels—in which, we are sorry to confess, the supply sometimes exceeds the demand.

You will have just such a newspaper, gentlemen, as you ask for. First cast the yellow mote out of the public eye, and the newspapers will return to their original tinge of purity.

In your own especial line, the trade journals are just what you make them. If, as I believe they are, they are clean and respectable, it is largely because they have a clean and respectable business to cater to. If they are not just what you want, please bear in mind what they might be. If they don't always publish just what you want them to, remember how much they leave out. If brother Williams here, or some other trade editor, should happen to rummage through headquarters over in the other end of this building, and publish all the letters in those long boxes marked "Confidential," there might be a stir in the Hardware trade; and if the letters of sympathy and condolence that our Fernley writes in reply, should also be published, the Hardware world would say: "Behold, here is one who

S. A. Bigelow.	J. R. Smith.	T. A. Harvey.	R. R. Williams.	John Bindley.	T. J. Fernley.	T. D. Buhl.	Wm. Chamberlain.	H. H. Bishop.	H. B. Bissell.	W. W. Supplee.	Hobart Weed.	G. J. Leighton.	Gen. C. W. Tillinghast.	G. D. Palmer.	J. H. Kennedy.	C. H. Turner.	H. Walbridge.	G. T. McIntosh.	A. D. Clinch.	C. E. Walbridge
										A										

	B		C		D		E		F	
C. S. Landers.	C. F. Smith.	L. C. Scheller.	C. H. Parsons.	C. A. Knapp.	L. H. Pease.
	R. W. Shapleigh.	A. W. Milligan.	W. G. Smythe.	H. C. Marshall.	
E. C. Neal.	Shelton Weed.	Fred. Draper.	Geo. Tritch, Jr.	Col. W. W. Woodruff	W. H. Kalbach.
	Fred. C. Pritzlaff.	G. P. Hart.	E. S. Batcheller.	B. A. Hawley.	
C. S. Van Wagoner	J. D. Foot.	E. J. De Hart.	F. M. Hill.	A. M. Wiley.	J. H. Robbins.
	W. C. Reitz.	S. H. Jones.	J. W. Price.	W. A. Parker.	
J. J. Teeple.	J. L. Osgood.	John E. Dean.	W. E. Ba'tholomew	J. G. Bauer.	W. D. Taylor.
	John Hubbard.	F. H. Forman.	J. W. Conchar.	W. J. Landon.	
E. P. Sanderson.	E. H. Ward.	R. K. Hireman.	D. W. Simpson.	J. A. Warner.	Thos. McMurray.
	T. B. Coles.	C. L. Campbell.	F. F. Smith.	E. H. Leutkemeyer	
A. C. Harvey.	S. F. Stevens.	W. M. Glass.	H. L. Lee.	A. J. Barnard.	J. G. Standart.
	Geo. S. Dana.			H. H. Rudd.	
A. D. Bayles.	C. H. Meyers.	Geo. H. Braun.	W. H. Standart.	J. D. Moore.	J. S. Lindsay.
	Geo. H. Bartlett.	T. V. Wilson.	Frank W. Davis.	J. M. Pardee.	
John G. H. Marvin	C. Hubbard.	L. C. Carter.	C. Kruse.	A. J. Bihler.	D. C. Delamater.
	Edward Rowland.	Howard Rowland.	Bruce Keener.	R. M. Ripp.	
M. Best.	M. Underwood.	O. B. Barker.	Geo. Reuter, Jr.	John Freeman.	Geo. T. Emerson.
	Paul Griffith.	W. K. Stanbury.	Harry Bowen.	Cortland Van Camp	
W. J. Sheehan.	R. Tucker.	J. S. Bonbright.	G. H. Jantz.	W. J. Shepard.	Col. D. G. Fones
	C. W. Wells.	B. M. Babcock.		Chas. F. Fletcher.	
John Stollberg.	W. H. Parke.	J. R. Griffith.	E. B. Kuntz.	L. F. Blue.	J. G. Forsythe.
	T. W. Gathright.	J. F. Foster.	G. M. North.	F. Harrison.	
Frank Jack.	J. F. Richards.	A. B. Palmer.	H. B. Lupton.		
	E. M. Kemp	W. F. Swigert.	I. Foerster.	Col. R. M. Dudley.	
W. S. McKinney.	E. D. Fisk.	J. M. Hattel.	T. M. Almgill.		
		P. B. Noye.		E. F. Schmidt.	
W. R. Wandless.	G. G. Stuart.				
F. E. Corey.					

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knoweth that molasses catches more flies than vinegar. There is indeed a balm in Philadelphia."

In referring to the doings of this Association, I wish to compliment one committee in the highest terms, although I have been brought up sharply against it many a time, and that is your press committee In the old legend of the garden of the Hesperides, there was a seven-headed dragon that kept all passers by from straying into the golden orchard. He did it well, with his seven mouths wide open, and all of them vociferous. Your seven-headed dragon, clothed in the plaid of the McIntoshes, does its work with equal effect, but silently, courteously and in a manner that, while sifting the news carefully, leaves no hard feelings and no sting. Therefore, gentlemen, if there is anything in the line of news about this Association that you want and don't get, please blame this committee, and not the editors.

In conclusion, permit me, gentlemen, to add my testimony in favor of that glorious thing which will hereafter and forever be known as "Buffalo Hospitality." This hospitality is not merely a thing of the present time, but it has always existed. Your honored mayor, at the "Smoker" the other evening, referred to Buffalo as the gateway to the sea. There was a time years ago when it was also called the gateway to the great and untrodden West. I had occasion, some time since, to look up some matters in connection with the origin of the city of Cleveland, and came across an incident which shows what Buffalo hospitality always has been. In the year 1796, a little party of surveyors were sent forth from New England to lay out the great Western Reserve, under the direction of that sturdy old pioneer, General Moses Cleaveland. On a beautiful morning in June, they reached that little stream which then, as now, bore the name of Buffalo Creek. As they rowed into its mouth, they looked away to the left and saw the verdant fields and the green forests and the blue sky, all smiling a welcome, and as they turned their eyes toward the Western bank, there stood with outstretched hand, ready to sell them tomahawks or scalping-knives or other implements of Hardware, cash down and no discount, that eminent Hardwareman, that prince of good fellows, Hobart Weed.

This speech concluded the set programme of the evening, but as it was yet early, a number of gentlemen were called upon, and responded with brief, but telling addresses, all of which fitted the occasion. Among these were Hobart Weed, Harry Walbridge and Walter J. Shepard, of Buffalo; H. H. Bishop, of Cleveland; John Bindley, of Pittsburg, and the secretary-treasurer, T. James Fernley. The remarks of the last-named gentleman were, in full, as follows:

SPEECH OF T. JAMES FERNLEY.

Mr. President and Gentlemen: When called upon in this unexpected manner I scarcely know where to begin my remarks. I had hoped that the gentlemen who preceded me would have opened up some line of thought which would have given me food for a few moments' attempt to entertain you. But, alas, gentlemen, such is not the fact.

I have prepared a few impromptu remarks, however, and will endeavor to make them just as brief as the correspondence with the *Iron Age*, from the pen of Supplee Hardware Co., and will endeavor to put as much thought into the subject about to be discussed as McIntosh-Huntington Co. put into the preparation of the articles which they write to *Hardware*.

We have been favored with a magnificent address from the editors of two of our representative trade papers. We also have heard eloquent remarks from one of the former members of our executive committee, whose position in connection with our association undoubtedly did much to attract the attention of the appointing power of New York State, so that we now are able to look upon him, not as an ordinary Hardware civilian, but as a General.

Thus, gentlemen, you have to-night had an illustration of the "Pen and the Sword." It would not be fair to say that upon this occasion the "pen" has been mightier than the "sword." Indeed, they are both in their way Mighty. This is an age—an era—where journalism is practically the controlling force.

Fortunately, we do not need the sword, unless it may be "the sword of the spirit." Truly, in the history of the world different classes have, at various times, come to the front and been the controlling influence. Centuries ago orators of Rome and Greece held sway. Subsequently, those who were skilled in the arts, particularly the sculptor and the painter, were revered. Afterwards we had these wonderful men produced by the Reformation. Then, what great musicians. Who does not revere Handel, Wagner, Mendelssohn and Mozart?

Literary genii have held their sway and were worshipped, as it were. Who has not read the writings of Shakespeare, Milton, Bunyan, Tennyson, Carlyle and Supplee?

This is all past and now two forces seem to be the ruling ones—Journalism and Organization.

The Journalism which fears not danger. Is it not a fact that Journalism has done much to breast the glaciers of the North and to nail the flag on the North Pole? Is it not a fact that the journalist, fearless, rushes into the plague? Is it not a fact that the journalist would not be deterred from going into the very caverns of the sea, if information could there be gleaned?

I say, gentlemen, to night you have heard from men who are fearless. Who, but these, could perform such wonderful work as did Karl Decker, who assigns one of his men to the most hazardous undertaking, probably, of the present century? Who is it but the able, fearless and brave journalist, who could dare to have undertaken to rescue the beautiful Cuban maiden, Evangelina Cisneros, from the cruel Weyler Spanish dungeon? Cuba must be, shall be, free. Our association owes much to the journalism of the trade.

It is true that, at times, they make quotations which are a little hard to meet and at the same time cover the expense of doing business, but we feel that if this most important work was in the hands of less conscientious gentlemen, considerable more danger would confront us.

The other factor which has such a controlling influence on the present age is that of organization, that of associations.

Indeed, gentlemen, the pages of history which are being written at the present day will reveal what gigantic results are accomplished by organized effort, which could not have been attained by individuals. And, right here, it might be well for me to ask "Why individuals do not, as individuals, protect themselves?" My answer is, that "This is practically impossible."

Scattered as we are over such a vast country, which vastness cannot be imagined by anyone who has not traversed it—and right here let me say that I feel that I am an authority on this vastness, for, as I said in my annual report, I traveled 30,000 miles, covering the distance from the rock-bound coast of Maine to the magnificent Golden Gate of the Pacific, which stands ever open to the traveler from the Orient (unless he be a Chinaman), and having traveled from that land where daylight only disappears at midnight to the beautiful country where the ground has to be tickled by the hoe to ripen into a bountiful harvest—having done this (for you, gentlemen, in your interests) I do claim to be somewhat of an authority on the vastness of our country.

And let me say that this is the reason why it is impossible for individual effort to avail. How would our esteemed friend, Chamberlain, residing as he does on the rugged coast of Maine, know what was in the heart and mind of our friend Mr. De Hart, who lives probably nearer to the Klondike regions than any other gentleman now

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present, if it were not for the fact that there is a common medium through which they may communicate and act?

And I, gentlemen, am proud of the fact that up to the present moment I have been this common medium. Your Executive Committee meets to-morrow, and it may be that they will conclude to get some other common medium, in which case I will simply subside, cherishing always the fond memory of my official duties in this Association.

One reason why associated effort seems so necessary is that heretofore there has been such a lack of confidence on the part of one jobber in another. In the words of Demosthenes to the Athenians I would say, "Yes, Athenians, I repeat it—you yourselves are the controllers of your own road. Lives there a man who has confidence enough to deny, let him arise and assign if he know of any other cause of the success and prosperity of Philip." But you reply, "What Athenians may have lost in reputation abroad she has gained in splendor at home. Was there ever a greater appearance of prosperity and a greater face of plenty?"

Have not the Jobbers endeavored to impersonate in some way the Athenians, and are there not many jobbers present who can say, "Have we not built up a magnificent business? Have we not more customers and a greater degree of prestige than any other house in our locality?"

Yea, Athenians, this may be true, but if you have done this at the expense of the profits of your business what have you to boast? In your great stride to command business is it not a fact that you have compelled these manufacturers, these loyal and honorable men, who use their skill and their money in converting into magnificent tools, locks, hinges, axes, shovels and all other useful commodities made from iron and steel—Is it not a fact that from this over-zealous competition you have compelled them to reduce their prices to such an extent that they cannot make a proper profit? Such I allege, gentlemen, is the fact.

The time has come when all this must cease if we expect to live commercially. I remember once taking the ride which we to morrow will take, from Buffalo to Niagara Falls, and I asked the gentleman who was seated beside me what was the name of yonder river. He said, "That is the Niagara River." I said, "How far are we away from the Rapids?" "Oh, only a mile or two," was the reply. The reason I asked the question was that I saw a boat fairly well built in the middle of the river, and in it were several Jobbers of Hardware. One was from New England, one from the Western part of our country. I saw one gentleman with a beautiful florid complexion who was from the South. The other gentlemen I could not recognize. Looking out from the car window I saw how near they were to the dangerous waters and I called out "Men, ahoy. The Rapids are below you." They laughed derisively. They had been used to danger. They had been making dangerously low prices for several years. They said, "We have heard of the Rapids. We are not fools enough to get into them."

The Jobbers who had the oars rowed onward. My heart throbbed. I would have jumped into the surging waters and rescued them were it not for the fact that there were other Jobbers of Hardware in whom I have an interest, who are living on the banks, as it were, of the Niagara River, and I thought I was not justified in risking my life, but that I could do more good in trying to live a little longer and prevent others from pursuing methods which would cause them to have the same fate as those who were about going over the brink at Niagara Falls.

Indeed, gentlemen, it is a fact that both jobbers and manufacturers have pursued such business methods in the past that they have gone into the Rapids and, hence, are not with us to-night; and if this organization, which under the masterly supervision of this gentleman, who is held in the highest esteem by everyone associated in any way with the Hardware business of this country, can succeed in inducing both jobbers and manufacturers to refrain from such business methods as will lead them to ruin we certainly, then, have performed our mission.

Let us help one another to reach the high places. It was my pleasure in June of this year to visit a member of our association, who is well esteemed, Mr. George Tritch. After having spent a little time with this man, who was a pioneer in the Hardware business in his day and also a pioneer settler in what is now the city of Denver, I was advised by his son, Mr. George Tritch, Jr., who is now at this board, to take a visit to Pike's Peak. He told me that he thought there was a jobbing house there and, of course, it was my duty, inasmuch as I had to pass Pike's Peak, to stop off for a couple of hours and see if I really could find a jobber. While standing there, some 14,000 feet above



CHAIRMAN HOBART WEED.

the sea level, my mind, of course, dwelt upon lofty things. I heard the story of General Pike, who was the first civilized being to ascend this peak. I learned how he, with his noble little company, camped out night after night, wild beasts lurking around their camp fire threatening to devour them, General Pike probably ascending a few hundred feet each day, and I said to the old aborigine who was there, "How did this party ascend to such wonderful heights? How did they get over these rugged boulders?"

"Well," he said, "there were quite a few of them and they joined hands and one man took the lead, grasping the hands of the next, and he with his fellow, they gradually ascended until finally the topmost part of the Peak was reached."

My mind immediately went back to you. You, gentlemen, who were toiling at your respective desks, while I was toiling in your interests in ascending the Peak. My mind went back to the jobbers of this country. And I thought how possible it was for you to ascend to the very highest

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peak of commercial success if you would help one another. The verse of poetry came to my mind:

"The heights by great men reached and kept,
Were not attained by sudden flight;
But they, while their companions slept,
Were toiling upward in the night."

There is a path which leads to almost every peak. The presence of one on the peak, who has been in the gorge, is conclusive evidence of such a path. Is it not far better for us to aid each other to ascend this peak than to endeavor to ascend ourselves by pushing down others?

Let this, gentlemen, be our effort, to help each other to attain the highest eminence in commercial success.

I hope that you will pardon me for having taken so much of your time with these impromptu remarks

With these remarks, the banquet came to an end.

On Saturday, the members and their wives visited Niagara Falls, in accordance with the programme outlined in the report of the entertainment committee given above. The day was one of pleasure and interest, and upon the return to the city, the greater part of the members and their friends departed for home.

THE SECRETARY-TREASURER.

At a meeting of the Executive Committee, held on Saturday, the position of secretary-treasurer was unanimously tendered to T. James Fernley, who was also the unanimous choice of the members of the Association. It is to be hoped that he will accept, as no more energetic, faithful or willing officer could be found.

THE ENTERTAINMENT COMMITTEE

which had the entire proceedings of the convention in hand, are worthy of the highest praise for their endeavors to make the occasion a source of pleasure and profit to all who were present. It is needless to say that their endeavors were crowned with success. The names of these gentlemen are as follows:

Hobart Weed, chairman, Buffalo.
Gen. C. W. Tillinghast, Troy.
Harry Walbridge, Buffalo.
Charles H. Turner, Albany.
John R. Griffith, Philadelphia.
Griff D. Palmer, Rochester.
G. J. Laighton, New York.
E. C. Neal, treasurer, Buffalo.

Good Business Manners.

No man can be methodical without being punctual; and without these two qualities, he becomes a nuisance to himself and every one about him—to himself, because he is always in a fume and muddle; to others, because want of method and punctuality are generally accompanied by irritability, want of consideration and injustice towards them. For it is a reliable (though unwritten) law that the unpunctual and unmethodical man invariably blames anything and everything, animate or inanimate, in his dilemmas, rather than attribute them to himself and his failings. He is always the hardly oppressed individual, who is too busy to be civil or obliging, and is having more put on his shoulders than his share (so he says); while others find time for a periodical "breather," and so remove their noses from the business grindstone. And, so far, he is truthful—he is always at work in a measure; that is to say, he is never free of it; and why? Not because he has a super-abundance of legitimate work in hand, but because he invariably starts late and has a nucleus of a day's business left over from yesterday instead of clearing-up, as he goes on the principle that, "Sufficient unto the day is the work thereof."

Punctuality should begin at both ends—if a man arrives at his office or business punctually every morning, he ought, and can, leave punctually every night. I am a disbeliever in overtime, especially for the brain worker—no one is much good for figures after nine hours' "hard slog" in the office.

The unpunctual man is a failure, in every sense of the word. He never, except by mistake, keeps an appointment, and thereby frequently offends a good client. A further sequence to this is often found in "differences" among the workers who, entirely owing to this irritating person, have nothing to do but to kill time for an hour at a time, and then, towards closing time, more than can be done without overtime. Now, is it to be wondered at if they resent this treatment? Nothing is more galling to a punctual and energetic man than to be forced to loaf about one hour and then put on double-pressure the next, when he knows, perfectly well, that it only wants method to keep the ball well and constantly moving.

Moreover, these "rushes" are accountable for half the errors. When men are driven hither and thither against time or letters written post-haste, it is not at all remarkable that grosses are ordered instead of dozens, letters placed in wrong envelopes, cheques sent away unsigned, and articles omitted from their proper parcels or placed in wrong ones. Unfortunately, the blame is seldom brought home to the right quarter. Another possible result of this pernicious habit is that men are sometimes sent off in a wrong train, simply because they arrive at the station at the last minute and assume that the train they enter is the right one, as there is no time to inquire. This may be a serious loss to the employer, and if he is the cause thereof, it serves him right. If, however, it is the manager—well, his room will very soon be preferable to his company, if the business is to prosper.

Search into the private affairs and character of any successful man you like, and you will invariably find that, among other virtues, he possesses rigid punctuality and method. Minutes lengthen into hours, and it is well to avoid the tendency of being a minute late (and not minding). Next time it will be two, then five, and so on. It is quite possible to be at one's post to the tick of the clock nine days out of ten.

Clear up as you go, as far as possible. Finish one thing well before you start another. Don't begin a half dozen and finish neither—they will have to be finished by some one. Be punctual and methodical, and you will be calm and collected and bring forth your best. Business worries must come, but don't manufacture them for yourself on the premises.—*The Hardware Trade Journal.*

The experiments in wireless telegraphy are being continued at Dover, and successful and interesting results have been obtained. In some experiments in which the South Foreland Lighthouse was made the objective, messages transmitted from Fort Burgoyne were easily read, and an electric bell was rung at the lighthouse by means of the wireless current. As the transmitter is only at one end, the ordinary means of signaling with the heliograph, etc., is adopted between the points. The accumulators used for the experiments are charged daily at the Dover Electric Light Works. The induction coil used is an exceedingly powerful one, and produces a thick spark nearly a yard long, the messages being transmitted from a vertical wire carried up a pole. So far the experiments are considered highly successful and encouraging. The application of the system to lightships is to form a portion of the experiments at Dover.—*Exchange.*

A clever workman in a cutlery factory in Sheffield, England, has recently made a dozen pairs of shears each so minute that they all together weigh less than half a grain. That is about the weight of a postage stamp. Each pair was perfect and would cut if sufficiently delicate material could be found. Lying on a piece of white paper, they seemed no larger than fleas.

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Changes on Chambers Street.

Notwithstanding that official notice was given in May last, that the erection of the Public Record Building on Chambers, Reade and Centre Streets would occasion the demolition of the premises now occupying the selected site, the firms interested, largely identified with the Hardware trade, seemed to have an abundant faith in the "law's delay," and made little preparation to vacate. A recent notice to all owners and occupants of the buildings from Centre Street up to, but not including, the building of the American News Co., that on November 26, 1897, all the buildings and parts of buildings, would be sold by public auction, gave the community a final shake-up. Steps were at once taken to select other quarters, which in some cases have made widely separated changes among old neighbors, and may possibly have a future bearing on some localities, completely changing the character of a whole neighborhood.

It is anticipated that after the sale of the buildings to the house wreckers to-morrow, the customary fifteen days only will be permitted to raze the buildings and cart away the material; to those large houses running through from street to street, and carrying large stocks of goods, it will be found a very difficult job to transfer their stocks to new localities already leased in which radical changes in inner construction may be necessary to fit them for the changed conditions.

Of the leading firms who are thus compelled to leave old quarters they have held for upwards of a quarter of a century, Sargent & Co., a most representative house, is compelled to move the farthest away. The necessity existing for enough space to make provision for the extensive line of goods always carried in their stock, compelled them to canvass a larger area than the other establishments. The premises finally selected are at Nos. 149, 151 and 153 Leonard Street, just east of Centre Street, a substantial building, built within five years past, having all modern improvements and about 70x115 feet, with a basement and seven floors above the pavement, in which ample space will be provided for all requirements. Workmen are already occupied in making the necessary changes, and it is hoped that early in December will find them in their new quarters. It is in contemplation to use the third floor as a packing department, while the offices will be conveniently located on the second. Having one passenger elevator and two freight elevators, the business will be greatly facilitated.

The facts of the ease with which the shipping could be done, and the premises reached by the wagons of their local trade, through the improved conditions from repaving Centre Street and widening Elm Street, were large factors in the selection of the building; the change will doubtless prove of no detriment to their present prosperity.

Peck, Stow & Wilcox Co. were fortunately able to find within the prescribed Hardware limits the premises suitable for their wants, although restricted in area over their premises at No. 27 Chambers Street. They will move to the store at Nos. 31 Warren and 27 Murray Streets, recently occupied by the Atlas Tack Co. They have leased the store floor and two basements, which extending as they do, 150 feet from street to street, will doubtless furnish the needed space for active business requirements. As they are already making the imperative changes and alterations required, they will soon be able to transfer their stock to the new premises.

Stanley Rule & Level Co. after spending thirty years on Chambers Street, were loth to depart from its tradewinning influences. They were successful in leasing the entire floor in the Cary Building, No. 107 Chambers Street, immediately over the premises of the Union Nut & Bolt Co. As the floor is of generous dimensions, running through to Reade Street, 50x100 feet, they will suffer no inconvenience from the change beyond the bother of moving their stock; and the change into this recently modernized building will bring them better facilities for transacting business and an opportunity for rearranging office requirements giving them improved accommodations.

U. T. Hungerford, the successor of Wallace & Sons, No. 29 Chambers Street, was compelled, in order to get accommodations positively requisite, to make almost as radical a move as Sargent & Co. He succeeded in leasing the large building No. 121 Worth Street, having six stories and a cellar, 80x22 feet, which. after alterations are completed, will be found well adapted for his business and not out of reach of the brass trade, which is already represented on Centre, Duane and adjacent streets. The improvement of Elm Street facilitating shipments, and the convenient location, will make the move of greater advantage than at first seemed possible.

Russell & Erwin Mfg. Co.'s New Catalogue.

Russell & Erwin Mfg. Co., New Britain, Conn., and Nos. 43 to 47 Chambers Street, New York, have just issued a new catalogue under date of 1897, handsomely bound in embossed linen; with cover design in gilt and color, which while giving evidence of their having joined the ranks of those who believe in the advantages of portable catalogues, has succeeded as well in presenting a very attractive and beautifully printed volume of 290 pages, 5x8 inches in size, that will be welcomed by all whose hands it may reach. It is evidently intended to be more especially an Architect's Catalogue, as its contents cover such lines of goods as would fill specifications emanating from such a source. All their specially attractive designs are shown in an extremely tasty manner on pages printed by the albertype or similar process, in such a manner that every page of this kind seems to have a faint tinted background to set off the beautiful pattern of the articles illustrated. Nearly all of the pages so arranged show, in illustrations of reduced size, the knob, front door and vestibule escutcheons, sliding door escutcheon, drawer pull and push button of each design, and on the opposite page is given in every instance the full description, catalogue number, size and list price of every article made of the design illustrated. When it is realized that few if any of these new goods are shown in their 1894 catalogue, with 1896 appendix, the utility of this new catalogue, its handy size and fullness of information, will be abundantly appreciated by the patrons of this company.

There are thirty-four styles and patterns fully illustrated in the manner we have referred to, representing every school of design, from the Grecian to the Romanesque. In addition to this varied assortment, a full line of mortise knob locks and latches, sliding door locks, wrought steel and other rim locks are also shown in connection with the butts, store door handles, and such other builders' Hardware as makes the volume doubly attractive and extremely valuable to the trade. A full discount sheet accompanies the catalogue.

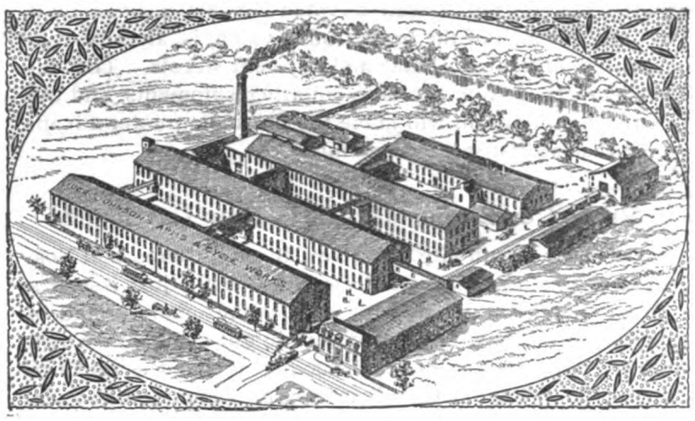
The *American Wheelman* in its issue of last week announced that hereafter it will be devoted entirely to cycle trade subjects; also that racing and other general matters connected with cycling will be eliminated. This publication has always been one of the authorities on trade matters, and has a corps of editors and contributors who are thoroughly conversant with them. The energy and ability of the staff will now be concentrated on the subject, and it is promised that the publication will be a distinct departure in cycling journalism. As heretofore H. L. Saltonstall will manage the business department, and G. L. McCarthy will have charge of the editorial work.

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Iver Johnson's New York Depot.

The Iver Johnson's Arms & Cycle Works, Fitchburg, Mass., have decided to open a new depot in New York City which will be located at No. 99 Chambers Street, under the management of William H. Cole, for many years associated with the firm of Tower & Lyon, New York.

The New York office, salesroom and warehouse is now being rapidly fitted up by Mr. Cole, and will comprise the entire second floor of the building, No. 99 Chambers Street, the lower floor of which is occupied by the American Wringer Co. This entire second floor will be fitted up for



the use of the depot, the Chambers Street end containing the offices, handsomely constructed with paneled oak partitions and plate glass sections, with other modern office equipments which will be in harmony therewith; the floor being covered with moquette carpet and Persian rugs. The middle section will be the space occupied by sample and show rooms where in appropriate sample cases the firearms, guns, revolvers and their police goods will be attractively displayed, while in the larger and lighter division of the Church Street front, will be shown the full line of high grade cycles made by this old and reliable house. From the packing room in the rear of this floor, all the shipping will be attended to by the aid of a convenient elevator and the storage facilities afforded by a loft above, will enable a large stock to be carried, from which prompt shipments can frequently be made, that will prove of great advantage to their agents and others handling their large lines of goods.

Mr. Cole in his new sphere of action has the best wishes of the trade who have long and favorably known him when identified with Tower & Lyon, the experience gained in which connection can now be largely drawn upon to ground the successful business which he will undoubtedly establish for his present company.

The Iver Johnson's Arms & Cycle Works have for more than thirty years enjoyed a reputation as builders of high grade firearms, second to none, and for twelve years past have sustained a reputation equally as high, as makers of high class cycles. We present in this article an illustration of their extensive plant which more than any extended comment conveys the knowledge of unexcelled facilities backed up by an abundant capital for all possible requirements.

Orders by Telegraph.

Great preparations are being made by the manufacturers of special lines of goods for the anticipated demand, which is usually the feature of the holiday trade. The Bissell Carpet Sweeper Co. about December 1st will make the following special announcement to the trade, printed in two colors on a neat fancy card:

"TELEGRARH YOUR ORDER AT OUR EXPENSE."

To our Customers: If you have not already placed your Christmas order with us, to insure having the goods reach you in time for the holiday trade, you are at liberty to wire your order at our expense.

We beg to impress upon you the increased demand that always comes for Bissell sweepers during the holiday season, and trust you will see to it that you have a sufficient stock of our goods to carry you over this period. There is no article on the market at the price that makes as desirable and acceptable a gift as a latest improved Bissell sweeper with "cyco" bearings, and that this is generally understood, is shown by the greatly increased demand for our goods during the holiday season.

Please bear in mind that we have the most complete line of toy sweepers on the market, at prices ranging from $2.50 to $6 per dozen, subject to rebates for quantity.

Remember no sweeper stock is complete for the holidays without "cyco" bearings; your customers will demand this feature, hence if you have none of these goods in stock, and no order with us, why not wire your order to-day at our expense?

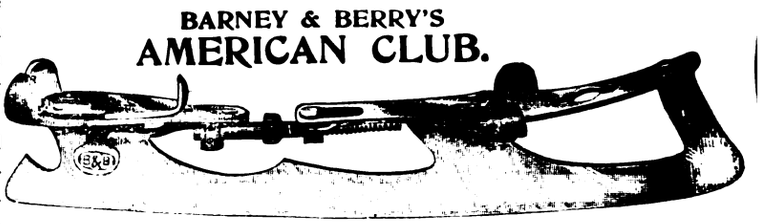
Barney & Berry's Latest Improvement in Skates.

The first blasts of the wintry season which places the thermometer below "the 33d degree," make the skate manufacturer hustle into the busy marts of trade and claim special attention as he takes his place at the head of the procession.

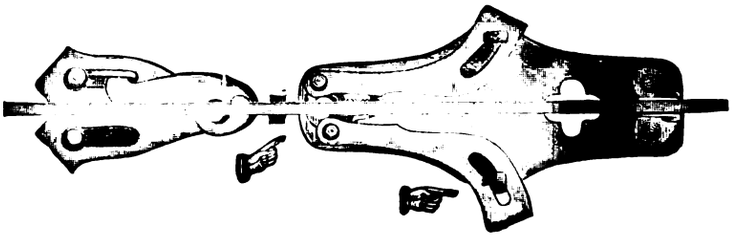
Barney & Berry, Springfield, Mass., the name of which firm is synonymous with the club skate, the artistic excellence of which has been before the trade for a quarter of a century, are this season placing upon the market their latest improvement of the world-famed American club.

This consists of a new "link attachment," which is this year attached to grades 3 and 5 of this skate, and which is illustrated in Fig. 2.

By means of this attachment the skate can be adjusted to the proper position sidewise upon the shoe, whatever



the style or shape. It is claimed to be an original feature and which no other keyless skate permits, in its method of adjustment. This will be found to be a taking principle for ease of application of the skate to the foot, and no dealer should fail to investigate its obvious advantages. The grades 3 and 5, to which it is applied, have "polished and



nickel tops and steel-faced blades, highly tempered and warranted to retain their cutting edge," making it a desirable skate for general sales. The New York office is at No. 114 Chambers Street.

The "safety" match is said to have been invented by a Swede named Lundstrom, in 1855. The head of the safety match contains chlorate of potash and sulphur, while the friction paper on the box is spread with a paste of amorphous phosphorus and antimony.

A man that assumes airs is usually full of wind and empty of everything else that is worth possessing.

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Weed's Special File and Handle.

The Arcade File Works, Anderson, Ind., and Nos. 97 Chambers and 79 Reade Streets, New York, have recently placed upon the market the Weed Special File and Handle, which is presented in the illustrations herewith, Fig. 1, illustrating the handle and showing a portion of the file indicating its method of adjustment, and Fig. 2, showing a 5-inch slim taper file in its natural or full size, indicating the different construction of the shank.

These special files are intended to make it unnecessary for the few similar imported files to find a market in this country, and to make this possibility subject to no adverse criticism, the finest grade of imported steel is used in their manufacture. Especial care is taken in the cutting and the tempering, which is done under Mr. Weed's supervision, and is perfected by an improved process, especially adapted for this high grade of file. The handle sold in connection with these files possesses superior advantages over any special handle previously adapted to this use. It is provided with a metal ferrule, into which is fitted the taper shank of the special file in such a way that it can be easily adjusted or as easily loosened.

The company have completed the range of sizes for slim tapers to include 4, 4½, 5, 5½ and 6 inches; to which they are now adding rounds and squares of the same sizes, and fitted to the same special handle. It is claimed that the time will be short before this "special file" will be found in every Hardware stock on its own merits, which should be known to the up-to-date dealer.

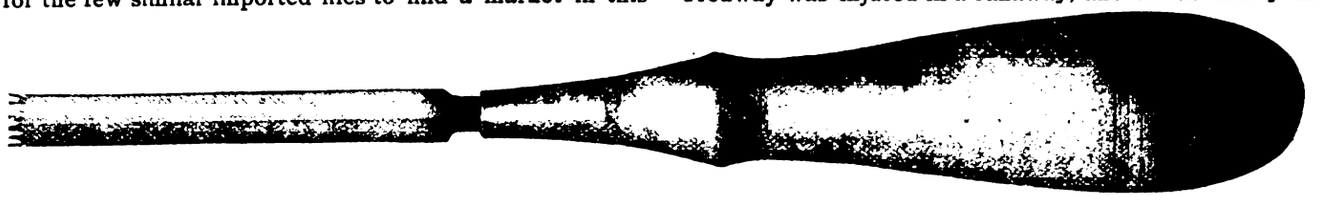


FIG. 1.



FIG. 2.

Death of Benjamin F. Dunham.

Brace Hayden, of the Dunham, Carrigan & Hayden Co., San Francisco and New York, was suddenly called to the Pacific Coast some days since, because of the sudden death of his senior partner, Benjamin F. Dunham, who died at his home in San Francisco on November 11th, of congestion of the lungs, after an illness of only a day and a half. Mr. Dunham may well be regarded as one of the pioneer merchants of the Pacific Coast. He was born in Plymouth, Mass., in 1830, and in 1850 left home for Boston, where he entered the employ of Butler, Keith & Hill, at that time one of the leading Hardware houses in New England. Deciding upon the far West as his future place of residence and occupation, he went to California in 1853, and entered the employ of Hooker & Co., of Sacramento. Toward the end of the year 1859, he removed to San Francisco, where he was connected with the house of Conroy & O'Connor, soon becoming one of the leading managers of that concern. In 1872 he became a partner in the house, and was accompanied in this move by Brace Hayden and E. W. Playter, the firm name being changed to Conroy, O'Connor & Co. In 1875 there was a change of interest, and the firm of Dunham, Carrigan & Co. came into existence, and in 1888 the company of Dunham, Carrigan & Hayden was formed, with Mr. Dunham as president. Mr. Dunham has been a force in no small degree in the development of the Hardware business of the Pacific Coast. At the time of his death he was president of the Pacific Coast Hardware & Metal Association. He was connected with many other interests of a business and social character, and was always found in the front when anything came up by which the best interests of the company he represented or the Hardware trade in general could be aided.

Death of Alfred Tredway.

Alfred Tredway, of A. Tredway & Sons Hardware Co., Dubuque, Iowa, a pioneer merchant in his line, died at his home in the city above named, on the afternoon of November 5th. Some years ago, when 62 years old, Mr. Tredway was injured in a runaway, and for several years thereafter was in a critical condition. His strong constitution, however, enabled him to partially recover, but he has never possessed full health since then.

Mr. Tredway was a native of New York City, where he was born on August 11, 1817. He began life as a clerk at the age of 18, in the Hardware store of Smith & Ruthven, with which firm and its successors he remained until 1843. In that year he opened a general store at Lyons, N. Y., where he remained until 1851, and went West on a prospecting tour. He went first to Chicago, and then to Dubuque, and becoming favorably impressed with the little place, determined to cast his lot there. The opening he considered most propitious there was a foundry and machine shop, and returning to New York, he formed a partnership with H. A. Rouse. They purchased a complete outfit of tools, machinery and appliances necessary for the business and immediately set out for Dubuque. The trip to Chicago was made by canal and the lakes. From Chicago a railroad extended to Elgin, Ill., and from Elgin to Dubuque the journey and transfer of machinery, etc., was made by wagon.

Arriving there, Mr. Tredway selected the site of the Iowa Iron Works for his new enterprise, purchased the property from its St. Louis owners, and founded the institution which has made Dubuque famous.

Mr. Tredway remained in the foundry and machinery business only until 1853, when he sold out to J. P. Farley, and in company with William Andrew, under the firm name of Andrew & Tredway, engaged in the Hardware business at Nos. 484 and 488 Main Street. He afterwards succeeded to the whole interest of the firm, took his sons into the company with him, and in 1879 removed to the present quarters of the company, on Iowa Street.

Mr. Tredway was married in September, 1846, at Lyons, N. Y., to Miss Elizabeth L. Taft.

Mr. Tredway leaves surviving him besides his aged widow, five children, three sons and two daughters as follows: Alfred W. Tredway, Harry E. Tredway, and John C. Tredway, and Mrs. Edward C. Peaslee and Mrs. Charles M. Peaslee.

Mr. Tredway was essentially a home man. His concern always was his family and home and away from his business he shone brightest at his own fireside and among a circle of intimate friends. Some years ago he relinquished the active management of the large concern he founded to his sons who, trained by him, have taken up the work, extended its scope and in their achievements have realized his fondest expectations.

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Primitive Mining and Metal Working.

The earliest miners and metal workers of whom we have record were the Aryan peoples of Euro-Asian origin, who, though of pastoral and arboreal habits, were familiar with the metals and worked with them—at least with the metals, gold, silver and bronze. Chaldeans and Assyrians, as we know from the cuneiform inscriptions which go back 3000 years B. C., were undoubtedly expert in the use of metals; while the Egyptians had an intimate knowledge of the arts and sciences. In the brick and other inscriptions, recently discovered, artisans are seen at work with curious details of their methods and tools. Potters, indeed, had attained eminence in their art, and the Egyptians had certainly a knowledge of chemistry, as the samples of their glass-blowing and the stone pictures of tools, forceps, blowpipe, etc., prove. Gold was largely used at an early period—between 4000 and 5000 years B. C., as we find from some newly-discovered and ingenious weighing balances. Many centuries older than the Pyramids, which date from fifty to sixty centuries back, we have examples of engineering in Memphis, which could not have been constructed without tools, and necessarily an acquaintance with metals. The word "metals" is of Semitic origin—the Hebrew word "matal," to forge, indicates an early acquaintance with the fusing of ores and the malleability of metals.

How these early primitive people discovered the use of things must, of course, have been through their wants and needs, particularly after they left pastoral and tent life and began to build cities. The Arabs are credited with being early acquainted with the alloys, though alchemy, as a science, dates only from the 16th century.—*Self Culture.*

Brainerd, Tanner, Gallien Co

Albany, N. Y., will soon have fully established another industry. The Brainerd, Tanner Gallien Co. is the name of a new company which has acquired the interests of the G. J. Dickson Mfg. Co., formerly dealers in Hardware specialties, and has purchased of John Pennie the property and buildings, Nos. 72–74 Church Street. The buildings will be extensively improved by the addition of the latest machinery for the manufacture of builders', piano, cabinet and plumbers' Hardware and other Hardware specialties. This will make necessary the employment of a large force of men. The officers of the company consist of B. M. Gallien, the former owner of the Dickson plant, who will be president and treasurer; H. J. Brainerd, the vice-president, is a well-known New Yorker; and W. F. Tanner, the secretary, is a former Albanian. The New York office of the firm will be at No. 107 Chambers and No. 91 Reade Streets.

One of the principal features at the Fourth Annual Sportsmen's Exposition and Bicycle Show to be held at Madison Square Garden, January 13th to 22d, will be the second annual grand championship rifle tournament. There will be in the programme of events individual championship match open to all, 100 yards off hand at a 25-ring target, distance 100 feet. Entrance fee for this test is $5, which will include a season ticket of admission to the Exposition. First prize championship trophy and $20. The other twelve prizes will divide $110. A continuous match, open to all, distance 100 feet off hand at a 25-ring target. Entrance fee for ticket of three shots 50 cents. First prize $50. $140 divided in other prizes. There will be a target of honor open to all, and a bull's eye target open to all. Full money prizes and premiums will be given. The target of honor will have $100 in cash prizes.

Hardware Specialty Co., Newark, N. J., have recently issued a catalogue covering their productions, which consist of bicycle and table bells, rotary hammer door bells, push buttons, etc., all fully illustrated.

The 1898 Dinner Committee.

President Peter McCartee, of the New York Hardware Club, has announced the following gentlemen as members of the dinner committee for the annual Hardware dinner of 1898:

Alfred D. Clinch, Chairman.
Eugene Bissell.
J. Leonard Varick.
James H. Kennedy.
George H. Sargent.
Edward C. Van Glahn.
Richard R. Williams.

John Alling & Co. Sell Out.

A recent business change in Chicago has caused a great deal of surprise and no small degree of interest in all parts of the country. The old wholesale Hardware concern of John Alling & Co., on Lake Street, has sold out to Hibbard, Spencer, Bartlett & Co., the sale being made on the 12th of November, and the actual delivery occurring on December 1st. John Alling & Co. was composed of John Alling, Simeon H. Crane and R. A. Scovel, and under various names has been doing business in Chicago for many years.

A. Adamson, of Akron, Ohio, has scored a very successful season in the manufacture of his special lines of goods. One of these is the making of special rubber machinery, and he has supplied articles of this character to the larger rubber manufacturers throughout the entire country. Among his other specialties are screw presses, hydraulic presses, tire repair presses, tubing machines, wrapping machines, automatic jar ring machines, steam traps, bicycle tire molds, molds for soft rubber goods, dies for hard rubber goods, hard rubber lathes, drilling heads, special machinery, etc. Any one desiring articles in these lines will do well to correspond with Mr. Adamson, whose machine and pattern works are among the best known established institutions in that section of the West.

Manning, Bowman & Co., Meriden, Conn., have ready their special catalogue No. 26, which is filled with the excellent wares being manufactured by this company in the way of house-keeping specialties, such as tea and coffee pots in many and various styles including handsomely decorated, planished copper, and nickel-plated specialties.

The Youngstown Specialty Mfg. Co., Youngstown, Ohio, who are large manufacturers of maple syrup goods, issue a pamphlet covering the many articles comprised in an assortment desirable for this class of trade, which includes tin can screws, round can trimmings, sap spouts, sap pails and covers, both in tin and galvanized iron, etc.

C. A. Hiles & Co., Nos. 336–338 Carroll Avenue, Chicago, Ill., who make a specialty of ice tools, etc., issue a catalogue and price list, covering these seasonable goods, and illustrating the various articles such as chisels, scoops, bars, tongs, hooks, axes and saws, plows, scrapers, grapples, etc.

The Porter Screen Mfg. Co., Burlington, Vt., are distributing their illustrated catalogue for the season of 1898. Among the contents is included a large variety of the adjustable window screens and a number of screen doors which form the principal product of the company.

The Harber Bros. Co., who handle wholesale farm machinery, wagons, etc., at Bloomington, Ill., have sent us a very taking announcement card concerning their lines for 1897-1898. They handle an excellent line of goods which are most excellently displayed.

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Review of the Markets.

Trade is moving but slowly in a general way, the wants in what might be called legitimate lines being handled in an extremely conservative manner. The fine weather we have been having of late all over the country would have been gladly welcomed had the thermometer indicated colder surroundings. Good, solid freezing weather would have a stimulating effect on many lines of goods now in stock in anticipation of wintry severity. In the month of November additions to stock are handled very warily as the jobbers usually take inventory the following month, with the retailers making a close second a month later. Prices are not being modified to any extent to close the present season. No doubt manufacturers and jobbers have in contemplation certain methods to adopt to insure opening the anticipated good trade of 1898, with a tone of confidence which, it is hoped, will continue without a break throughout the season. Everything indicates a prosperous condition of affairs as affecting the future, and no doubt exists but what the season will prove a satisfactory one all around.

Wire nails. The market for this staple is in a satisfactory condition, no especial weakness being manifested, prices remaining about as last reported. Little change from the present tone is not anticipated, the production not being particularly heavy, and the demand no more than meeting it comfortably. It is believed the manufacturers would like to see some movement to make a combination of interests that would strengthen the market, but it is not likely to take place at once. Quotations are still held at $1.45 for carload lots at mill, which price could possibly be shaded for a good sized order. New York quotations are $1.55 and $1.60 for carload lots on dock, while smaller lots from store are held at $1.65.

Cut Nails: Notwithstanding more of an effort is being made to introduce cut nails in certain quarters on account of the more moderate condition of prices, the movement of trade has not been greatly increased thereby, and similar conditions prevail in the market, as was noted in our last report. Prices may be quoted at $1.15@$1.18 base, f.o.b. mill, with New York prices as follows: $1.30@$1.33 for carload lots on dock; and 10 cents a keg advance for smaller lots from store.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of November 18, quote prices as follows: In lots of less than 5 barrels, 39 cents per gallon; in lots of 5 barrels or more, 38 cents per gallon. The five-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon.

THE COLUMBUS TRADE.

Business is still above the average of 1896, and we have no cause for complaint. We are kept out of mischief by having no time for anything but business. If we had leisure, no telling what some of us would do. The weather has been encouraging for the past two weeks, plenty of warm, gentle rains that have made the Fall pasture and wheat get a good start. Wheat is coming along now in good shape, and farmers are very much encouraged. Farm products are some lower, both stock and grain; still prices are better than they have been for some time. Cattle and sheep are bringing good prices, but hogs are lower. Farmers seem anxious to get them to market, and the result is that too many have been offered, and the price dropped about ½-cent per pound. Cattle are ¼-cent per pound off, but even 4¼ cents is a good price for cattle.

The trade in ammunition and guns never was as large as this year. It has been an impossibility to get either fast enough, and the cheaper grades of guns seem to be cleaned up all over the country. The poor Bob White and Cotton Tail have troubles of their own, and many there are that tickle the palate of the wicked hunter and his friends. The writer was out one day last week, and I know of some palates that expected to be tickled with quail on toast, that were disappointed. All they lacked was the quail. For some reason my gun did not shoot right (at the birds). After giving up shooting for six years, you get off your quail. At any rate, the quail gets off once in a while. You hit one accidentally; and a rabbit's tail bobbing up and down, hypnotizes you. Well, a rabbit is poor, dry meat anyway, but it is fun to see him run after you shoot.

Some staple goods are lower in price. Wire and nails are both weaker than they were the first of the month (we mean the price is weaker; guess the articles are just as strong). Strap hinges are a little lower Glass is any price you ask, providing you can furnish the glass. The stock of glass, we think, has never been so low; at any rate for several years.

It will soon be time for stock taking and shaping up for 1898. We are well satisfied with 1897 business, and feel very sanguine about 1898. We are in receipt of a circular from the secretary of the Chicago Jobbers' Association, stating that hereafter a reasonable charge will be made for box and cartage. We are glad they are coming to their senses. Chicago jobbers were the first to announce that they would make no charge for box and cartage, and it is right that they should lead in restoring a just custom. It is a big item of cost in marketing goods and must be added to the cost and selling price of goods. Manufacturers know just how much a box holds, and know exactly what the box costs. If it is 2 per cent., it is added to the cost the same as any other item of cost, and the selling price is based on the cost with cost of box included. No merchant is foolish enough to think that they give the boxes away. It must come in some place, and when actual cost *only* is charged, it is a very small item on each invoice. No manufacturer or jobber should charge more than actual cost for box and cartage. If that is done, we don't think any merchant will complain.

SMITH BROS. HARDWARE CO.

THE PHILADELPHIA TRADE.

If the editor of *Hardware* would only allow us to draw on our imagination for our customary semi-monthly letter, and not confine us strictly to facts, it would be very much easier to send an epistle which would be much more interesting than the average. Unfortunately, however, the editor asks for facts, not romance, and, as business to-day is very uneventful, it is hard to find any startling news.

Prices, apparently, are on the bottom, so that manufacturers cannot stand another turn of the screw, and, with the trade moving along in the average way, and prices hesitating before taking an upward turn, it is most difficult to report anything new or unusual.

The air is full of rumors about a proposed gigantic wire and wire rod combination, which seems to have every sign of becoming a matter of fact, but as yet the final arrangements have not been announced as made. A moment of reflection shows that wire now enters into so many manifold uses, a firm advance in rods must necessarily influence a vast variety of goods These reports have been raised so often that all hands are inclined to wait their accomplishment before basing any action upon their likelihood.

As for prices, manufacturers are certainly pursuing a very wise, conservative policy. From all sides we hear reports of busy factories, and yet complaints are many that the goods so manufactured are being sold at, or below, the cost of manufacture. Manufacturers are, therefore, simply biding their time for an advance, when they judge it wise to take this step.

Labor is also reported as very restless, and, as the average working man always thinks that a large amount of

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co.*, 91 Congress St. E., *Detroit, Mich.

business means corresponding profits, it is more than likely that ere long some advances will be compulsory by reason of the advance in the price of labor.

At present there are no changes to report in prices. Wire nails and barbed wire still hold their own, while the supply on the market does not seem to be excessive.

Cast goods of all kinds are still practically at the lowest point, and will probably be among the first to feel the benefit of any higher quotations.

It is very gratifying to report that collections are improving—this is a sure sign of better times—and few things are more important to the jobber than the cutting down of his suspense account, and no one is more anxious to see his customers succeed than is the jobber, whose welfare is necessarily entwined with those of the dealers to whom he sells. BIDDLE HARDWARE CO.

THE PITTSBURG TRADE.

November is proving a very satisfactory month in this section, so far as volume of trade is concerned.

Increased activity in the manufacturing and mining interests helps the merchant, and as all the furnaces and mills are running full, and the coke works also have everything in operation, the men are buying more freely than for several years.

Cautious people think this activity will be short-lived, but the signs of the times seem to point to a good year in 1898, with possibly a slight halt about midwinter.

At this writing our representatives are getting ready to attend the Hardware Jobbers' National Association Annual Convention, where we hope to meet our competitors from other cities in a social way, and compare notes as to our mutual interests. This Association has proven very advantageous in bringing about a better feeling and a higher standard of business methods during the three years of its existence, and is now in full vigor, and likely to be permanent. LOGAN GREGG HARDWARE CO.

THE CHICAGO TRADE.

We have been most agreeably surprised to see how quickly business has responded to the late change in the weather.

The last few cold days have caused an excellent demand for sleigh bells, skates, stove boards, cross cut saws, axes and other lines of seasonable goods.

Cutlery, both pocket and table, never sold better with us, and while prices for many articles in the line of Hardware are very near cost of production, we presume that we will have to be satisfied for the present with large sales and small profits.

Collections are much better than one year ago; failures fewer and of smaller size. Everything looks encouraging to us. WELLS & NELLEGAR CO.

THE TOLEDO TRADE.

We are glad to say that trade for the last two months has been considerably better than for the same period a year ago. In fact, it is quite good now, but still we could do considerably more.

Collections have been considerably better than a year ago; in fact 50 per cent. better.

Prices in general are still very low, although on some few articles in order to obtain quick shipments, buyers have been compelled to pay some advances, but which condition is being lessened very materially at the present time.

We think there would have been a considerably better business this Fall if the weather had been a little colder.

Seasonable goods such as stove-pipe, elbows, coal hods, sinks, mica and kindred goods have been moving rather slow, considering the time of the year, which is brought about no doubt by the extreme warm and pleasant weather we have been having in general.

Business in general in Toledo has been quite satisfactory to most of the jobbing houses and manufacturers this Fall, but we expect a considerably better business next year. STOLLBERG & CLAPP CO.

THE MINNEAPOLIS TRADE.

The beautiful Fall weather we have had, has enabled builders to proceed with outside work. In consequence, there has been some business in this line this season that there otherwise would not have been, the larger class of building being medium priced residences. General trade has not been quite up to expectations, and while the good price for wheat has been a great help, still it has been found that, generally speaking, the crop is small, much smaller than was earlier estimated. In consequence of light yield and poor quality, the farmer has been obliged to pay big prices per bushel for threshing, and in many instances his wheat would not grade No. 2. Fortunately, their other crops such as corn, barley, potatoes, etc., have been abundant, and prices ranging high. Thus, in spite of the discouraging features in connection with the wheat crop, a large amount of money is being distributed among the farmers, which will in due course of time find its way through the regular channels of trade.

Sawmills generally will close within the next week or ten days, but the greater part of the employes will have an opportunity to go into the woods as there will be more logs cut this year than for several years before. We think, generally speaking, laboring men who want work will have little difficulty this coming winter. We can see no reason why business should not be good the coming year. We would like to see real estate move a little better and bring a higher price. That will probably come later.

W. K. MORISON & CO.

THE DAVENPORT TRADE.

Work is progressing on the Crescent bridge. We hope soon to have two railroad bridges at this point, and that the result will be a union passenger depot that will accommodate the C. B. & Q., C. M. & St. P., C. R. I. & P., R. I. & P. and the B. C. R. and N. railroads centering here. The fact that a number of the United States senators, among whom was Allison, of Iowa, have been here recently, and also an extended visit from Gen. Flagler, chief of ordinance, has increased the prospect of getting the small arms gun plant at the arsenal here. There is already a large amount of infantry, cavalry and artillery equipment made for the regular army. Field and siege gun carriages are perhaps the most important at present.

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The Sylvan Steel Co. are running up to their full capacity, and will soon put in an open hearth steel plant. The Bettendorf Metal Wheel Co. are very busy. The Bettendorf Axle Co. are extending their plant and increasing their capacity, and still seem to have all they can do. Should any of the readers of *Hardware* happen this way, they should certainly visit this manufacturing company. They stamp out of steel not only axles, but bolsters, tongues, whiffletrees and in fact everything that is used in wagons and many parts of railroad cars with surprising rapidity—all inventions of Mr. Bettendorf, who not only makes all these things, but makes the machines to make them.

The Rock Island Stove Co. report they are running full time, and sales show a handsome increase over last year.

The Iowa Hardware Jobbers' Association was well represented at the National Hardware Association at Buffalo. If the members of the parent society get along as harmoniously as the members of its two-year old Iowa child, there can be no doubt but great pecuniary advantage will result, not to mention the pleasure enjoyed at the annual meetings. We hope Davenport will sometime be selected as a place for one of their interesting conventions General Hardware trade continues to improve, and shows a healthy increase over this season last year. Collections fair.

SICKELS, PRESTON & NUTTING CO.

THE ST. PAUL TRADE.

We have had freezing weather, and the result is an increase in business, as the farmer is obliged to stop plowing and buy Hardware to make him happy for the winter. As the holidays are in the near future, goods for presents are in demand, and we notice that the trade is more willing than usual to buy this line. Altogether we find the trade feeling that the next year is sure to be a fair one. They are hopeful for the future, and are paying up very well at present. C. W. HACKETT HARDWARE CO.

Wheels.

"Ride a cock-horse to Banbury Cross," sang old Mother Goose, and the melodious dame was a truer prophet than she deemed; for somewhere about 1818, a rough wheeled affair of that name jogged through London streets. Here is how the poet John Keats describes it:

"It is a wheel-carriage to ride cock-horse upon, sitting astride and pushing it along with the toes, a rudder wheel in the hand. A handsome gelding will come to eight guineas, however. They will soon be cheaper, unless the Americans take to them."

This was followed by the dandy-horse, an improvement with the head of a steed, wooden wheels, and padded seat, on which the postman pranced through the rural districts, in the thirties, at about the rate of seven miles an hour. The dandy continued in use until the advent of the velocipede. This was a cumbersome structure, and ere long gave place to the "ordinary," the first real bicycle, but six feet in height. Still, the right track was reached at length, and ultimately, with rival variations in the form of tricycles and unicycles, the present "safety" was evolved. It has held its own for a full decade, and probably will continue to hold it until some electric motor of moderate price puts it to the blush.

In ball game and on the fleetly speeding bicycle woman now takes her place, side by side with man, as she never did before. Our grandmothers, in their sedentary youth, spun on picturesque whirring wheels beside the open fire; *fin de siecle* maid takes spins upon the merry modern wheel with pneumatic tires.—*Lippincott's.*

Sold the Machine.

The book agent, the sewing machine agent, the insurance agent have each and all won distinction by their perseverance, but the agent of the washing machine is worth his weight in gold to the house for which he travels, if all there is said about him in the following is true:

Exasperated Woman of the House—I have told you a dozen times I don't want the machine! Sic him, Tige!

Agent (while the dog is gnawing his leg)—Don't want the machine, ma'am? Pardon me, you haven't yet seen half its good points. It washes the clothes cleaner than any other, and in less than half the time. It never tears off a button It—

"Good heavens! Don't you see what the dog is doing?"

"Yes, quite a playful animal. This machine, ma'am, uses less soap, takes up less room——"

"He'll tear you to pieces if you don't go. Run, for mercy's sake! He's tasted blood, and I'm afraid I can't stop him now."

"I have to put up with such things, madam, and it's in a good cause. This machine is the best one that ever was invented. If I can succeed in introducing one into a family I always feel that I have done a benevolent act. You can use any kind of water, hard or soft, hot or——"

"Oh! oh! oh! He'll kill you! What is the machine worth?"

"It's worth a million dollars in any family, but I'm selling it for only $5, and——"

"Here's your money. I'll take it. Tige! Tige! Let go!"

"Looks as if we were going to have rain. Well, I must be going. Good afternoon, ma'am."—*Exchange.*

Buy what you require, but do not buy that which some one wants to sell you but for which you have no use.

HARDWARE'S "Prices Current" are reliable.



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New Process of Galvanizing.

At a meeting of the Franklin Institute recently a paper was read by George C. Reese describing a new process of galvanizing wire. Enormous quantities of steel and iron wire are required to be "galvanized" or plated with zinc, and the long-established process has been to unwind the wire from one coil and wind it upon another, passing it in the meantime through baths or other means of chemically cleaning the wire, then through a long trough containing a large quantity of melted zinc kept constantly hot, and between wipers of asbestos or other material.

The process has always been a slow and tedious and expensive one, the objectionable features of which it is not necessary to enumerate. By the new process the wire is coated more satisfactorily than before and without the necessity of even unwinding the coils. The coils or bundles of wire are first cleansed by acid. The whole bundle is then dipped into the bath of melted spelter, and when it has received a thorough coating it is quickly dropped into the basket of a centrifugal machine. For small or light coils the machine may be already in motion, while for heavier wire it must be started after the wire is put in. The surplus coating is almost instantly thrown off from the wire, and an excessive speed is not required. The machine is stopped and the bundle of wire is removed as quickly as possible and is jarred upon a block to prevent the wires from soldering together. Barbed wire has been successfully treated by the new process after it has been twisted into shape and formed into bundles. When wire is galvanized before being barbed and twisted much of the coating cracks and peels off and the points quickly rust. Treated by the new process, the wire is more durable and retains its efficiency much longer. Wire cloth finer than eight meshes to the inch cannot be galvanized by the old method, while by the new process cloth of any fineness may be coated, if the speed of rotation is increased according to the fineness. Samples were shown of 12x13 fly wire 16 mesh, believed to be the first of the kind ever successfully galvanized after weaving.

Iron-Making Countries of the Future.

Says the *Iron and Coal Trades' Review* of London: The iron-making countries of the past have been India, Russia, Sweden, Spain, the North American colonies and Great Britain. Between 1840 and 1882 Great Britain had three-fourths of the world's iron trade. Since 1882 Germany and the United States have made such rapid progress that we now only average about a third of the trade of the three countries, although during last year we are likely to have averaged more than that proportion.

The other iron-making countries, in the order of their importance, are France, Russia, Austria-Hungary, Sweden, Belgium, Spain and Canada. Practically, it may be said that India, the countries of South and Central Ameriea, our Australasian colonies, China, Japan and the countries of South and Central Africa, have not as yet entered the lists, although small quantities of iron are produced in some of them, as in India.

Put in another way, it is about correct to say that up to the present time, Asia, Africa and Australia stand outside the pale of iron-making industries, and that more than one half of the American continent is in the same position.

This condition of things cannot be expected always to continue, seeing that most of these countries are possessed of iron-making resources, some of them of practically unlimited extent. Already, indeed, China and Japan have taken the bull by the horns. The Chinese have erected large works at Hankow, and the Japanese are about to expend half a million sterling on large works destined to make their own railway and shipbuilding material.

The Newport News Ship Building & Dry Dock Co., Newport News, Va., are erecting at their ship yard a crane capable of lifting 140 tons. This crane is to be used for the placing of engines, boilers and other machinery in the large war vessels which they are constructing for the government, and will be also used for placing on the sides of these vessels their armor plates, some single pieces of which weigh from 40 to 50 tons. The crane will have sufficient reach so that it will cover the entire width of a large cruiser. This crane revolves in a circle on a turntable which is supported on a steel foundation about 25 feet high. This steel foundation is to carry, besides its own weight, the weight of the crane, its machinery, and whatever load may be lifted, which altogether will aggregate 900 tons. The steel support for this crane is being furnished and erected by the Berlin Iron Bridge Co., East Berlin, Conn.

C. Rogers & Bros., Meriden, Conn., Maltby, Henley & Co., No. 20 Warren Street, New York agents, are distributing to the trade Catalogue No. 51, embracing in its finely illustrated contents, the large variety of silver-plated ware made by them. Included in this, are to be found: Spoons, forks, knives, carving sets, fish and salad sets, nut crackers, nut picks, etc.

Scheeler's Sons, Buffalo, N. Y, have recently issued general catalogue No. 4, designed for 1898 business, and covering in its pages a complete line of their manufactures, illustrating: Wire cloth and wire goods, extending in its scope to wickets, grills, office railings, and the other artistic wire work now so generally used in modern office and bank edifices.

IN HOSE AS IN MEN,

Belting,
Garden Hose,
Water Hose.
Fire Hose.
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets.
Valves.
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties.
League Tires.

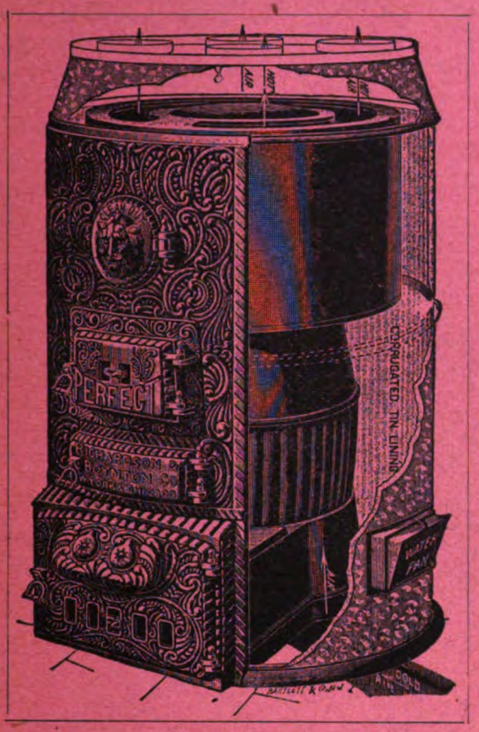
most trouble comes from the inside. So long as the stomach keeps sound its owner keeps useful. Just so with hose, and the fact that it has a rubber stomach doesn't alter the principle. Water hose is all right so long as the rubber tube remains tight, but once break its surface with a pin-hole or crack, and what happens? The water leaks through into the plies of duck and rots one after another until the strength of those remaining is unequal to the pressure—then there's a burst. **What causes pin-holes?** Particles of foreign matter in cheap, heavily adulterated rubber. The high grade rubber which we use in **1846 Para, Double Diamond** and **Carbon** hose contains so little foreign matter that the chance of pin-holes is practically wiped out. **What causes cracks?** Poor rubber again—unelastic rubber—rubber that can't respond to the bending, stretching and twisting which hose receives in service. **1846 Para, Double Diamond** and **Carbon** rubber is full of life and elasticity—bending, stretching and twisting does not rupture it.

Our Hose is built to last. Every thing about it is first-class—your customers will like it. Send for samples and prices.

New York, 25 Park Place.
Chicago .....143-145 Lake St.
St. Louis.....210 North 12th St.
Indianapolis... 70 S. Illinois St
Philadelphia ..308 Chestnut St.
Boston.....24 Summer St.
San Francisco.. .509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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These goods sold by the largest Hardware trade in the U. S.



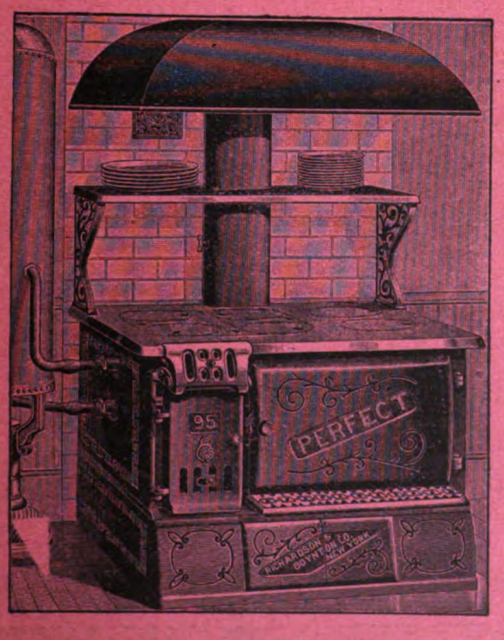
"PERFECT" HEATING FURNACES AND COOKING RANGES.

Are first-class in all respects.
Durable and powerful Ranges. "Please the Cooks."
Adopted by all leading Architects because of their Superior merit.

SEND FOR DESCRIPTIVE CATALOGUE.

RICHARDSON & BOYNTON CO., MANUFACTURERS.

232 and 234 Water Street, NEW YORK.
84 Lake Street, CHICAGO. 94 Union Street, BOSTON.





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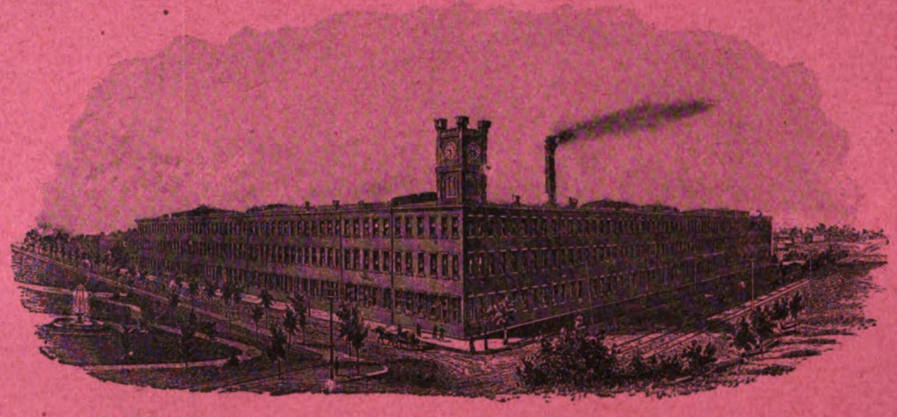
LALANCE & GROSJEAN MFG. CO.

New York, U. S. A.

BRANCHES:

CHICAGO, ILL.

BOSTON, MASS.



FACTORIES:

WOODHAVEN, L. I.

ROLLING MILLS:

HARRISBURG, PA.

MANUFACTURERS OF

AGATE NICKEL-STEEL WARE, CRYSTAL STEEL WARE, PEERLESS ENAMEL WARE, BLUE AND WHITE ENAMEL WARE, KITCHEN SINKS, PLANISHED, BRASS, COPPER, HOTEL, STAMPED, PIECED AND JAPANNED WARES.

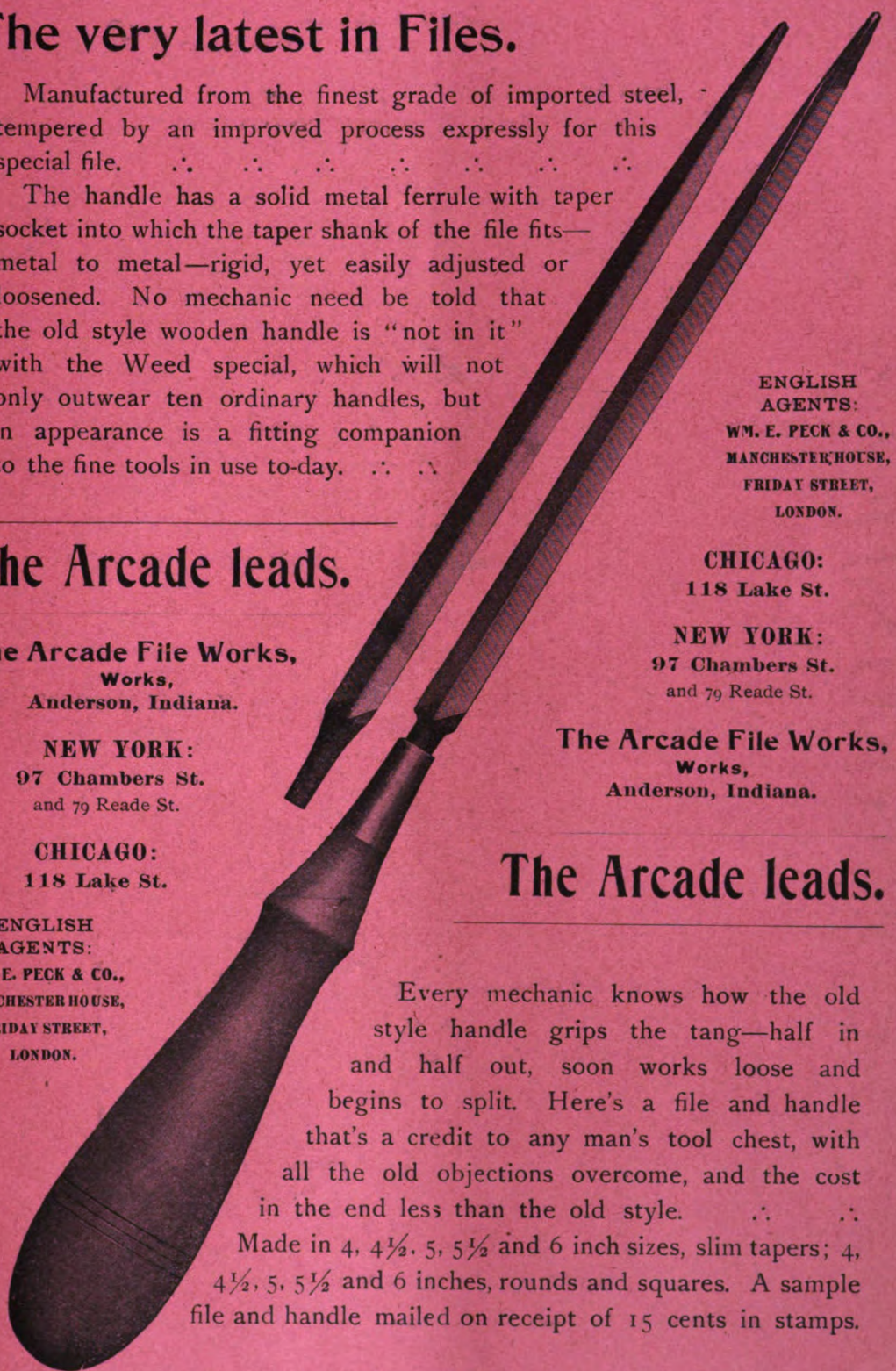
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Weed's Special File and Handle.

The very latest in Files.

Manufactured from the finest grade of imported steel, tempered by an improved process expressly for this special file. ∴ ∴ ∴ ∴ ∴ ∴ ∴

The handle has a solid metal ferrule with taper socket into which the taper shank of the file fits—metal to metal—rigid, yet easily adjusted or loosened. No mechanic need be told that the old style wooden handle is "not in it" with the Weed special, which will not only outwear ten ordinary handles, but in appearance is a fitting companion to the fine tools in use to-day. ∴ ∴



The Arcade leads.

The Arcade File Works,
Works,
Anderson, Indiana.

NEW YORK:
97 Chambers St.
and 79 Reade St.

CHICAGO:
118 Lake St.

ENGLISH AGENTS:
WM. E. PECK & CO.,
MANCHESTER HOUSE,
FRIDAY STREET,
LONDON.

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WM. E. PECK & CO.,
MANCHESTER HOUSE,
FRIDAY STREET,
LONDON.

CHICAGO:
118 Lake St.

NEW YORK:
97 Chambers St.
and 79 Reade St.

The Arcade File Works,
Works,
Anderson, Indiana.

The Arcade leads.

Every mechanic knows how the old style handle grips the tang—half in and half out, soon works loose and begins to split. Here's a file and handle that's a credit to any man's tool chest, with all the old objections overcome, and the cost in the end less than the old style. ∴ ∴

Made in 4, 4½, 5, 5½ and 6 inch sizes, slim tapers; 4, 4½, 5, 5½ and 6 inches, rounds and squares. A sample file and handle mailed on receipt of 15 cents in stamps.

Weed's Special File and Handle.

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BARNEY & BERRY'S
NEW LINK ATTACHMENT

As applied to . . .

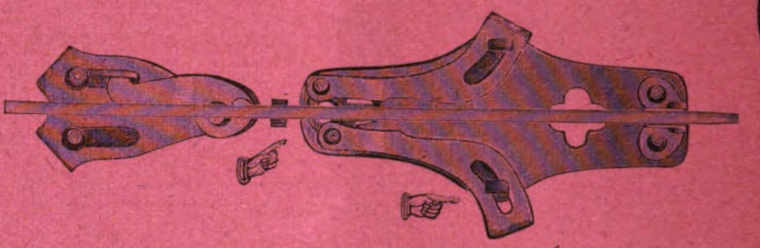
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BARNEY & BERRY'S

"ALL CLAMP,"
"CLUB"
AND
"ANKLE SUPPORT SKATES."

BARNEY & BERRY'S
AMERICAN CLUB.





To avoid FRAUD see that THE NAMES OF BARNEY & BERRY ARE STAMPED ON EVERY FOOT PLATE.

Catalogue on Application.

Factory at SPRINGFIELD, Mass.

New York Office: 114 Chambers St.

New England Office: 100 Milk St., Boston, Mass.

Philadelphia Office: 412 Commerce St.

ANY HARDWARE DEALER

IN THE

UNITED STATES, CANADA or MEXICO,

WHO IS NOT ALREADY

A SUBSCRIBER TO

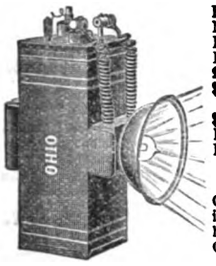
ALL THE NEWS. HARDWARE HARDWARE EXCLUSIVELY.

Will find it a distinct advantage to forward us his name and address

BEFORE JANUARY 1, 1898.

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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights.	$4.0
Necktie Elec. Lights.	1.5
Edison Elec. Motors.	1.0
Battery Fan Motors.	5.0
$8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells	.50
Electric Bells, finest.	.30
Dry Batteries, best.	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. Catalogues free.

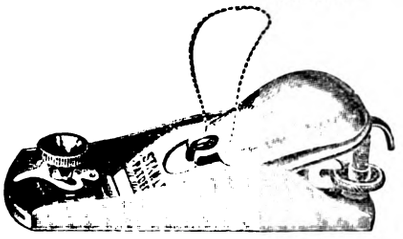
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

Stanley's Knuckle-Joint Block Plane.
WITH IMPROVED THROAT ADJUSTMENT.



The knuckle-joint in the cap makes it a lever too; and placing the cap in position, will also clamp the cutter securely in its seat.

No. 18. Nickel Trimmings, 6 in. Length, 1¾ in. Cutter.. $1 75

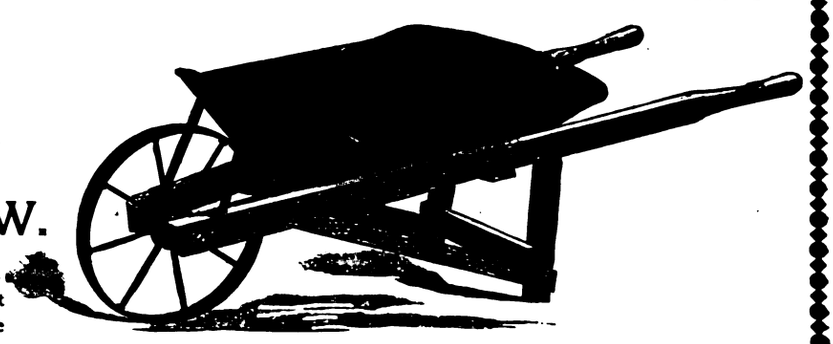
Recent Trade Publications.

Any dealer, whether American or foreign, who wishes to post himself thoroughly on the subject of Refrigerators from A to Z, should be in possession immediately of the handsome 1898 catalogue issued by the Baldwin Refrigerator Co., Burlington, Vt. We are tempted to say a great deal about the artistic appearance of this publication, and certainly whoever was interested in its preparation had a fine eye to general effects, and an artistic taste in the selection of paper, the designs for the illustrations, the color used in the printing, and minor accessories. This is a book of 80 and more pages, printed upon heavy calendered paper, and so arranged that some specimen of the many varieties manufactured by this company is seen upon every page, printed in effective color, which brings the article out in bold relief. The catalogue is not only one of the finest ever issued, but most varied in its contents, covering 125 varieties, which, a representative of the company informs us, is "a larger assortment of popular prices and styles than is, we believe, made by any other manufacturer." In a prefatory note to the trade, the Baldwin Co. direct special attention to the many improvements made in their goods, as shown by new cuts from photographs, and to the numerous advantages which they are prepared to offer the trade. They call attention to the large variety in styles and sizes made both in hardwood and softwood, zinc-lined and spruce-lined, and state that the dealer who handles the Baldwin is not obliged to purchase from several sources in order to get a sufficient variety to meet the wants of his different classes of customers. They say: "Our list prices are low, particularly for the popular-selling sizes, a decided advantage to the dealer who caters to family trade, and our discounts liberal." The quality and design of their goods have been materially improved during the past year, and with the increased facilities offered by a new and enlarged factory, and the very latest machinery for their purpose, it is their intention not only to maintain the present standard of excellence, but to still further improve in this direction. They say: "An established reputation is to the thoughtful dealer a consideration. The Baldwin Refrigerator is not an untried experiment. It has been on the market many years. It is built by a reliable concern that has had long experience in the refrigerator business, and is used by many of the largest public institutions in the United States. In its new dress it presents an appearance second to no other make of refrigerator, while for results and variety in style it is not excelled." They have always made a specialty of prompt shipment, and with unusually good manufacturing and shipping facilities, can promise patrons continued satisfaction in this respect. Cars are run direct to their factory and store-house, and goods are frequently shipped within an hour from receipt of the order. They further state that while this catalogue contains a large variety of goods calculated to meet the wants of all ordinary purchasers, it occasionally happens that a special size or style is desired to fill a certain space, or the means of access do not admit of the passage of large size refrigerators or coolers, which must be built in sections. They build such goods to order, and estimates will be gladly furnished on receipt of sketch and general details. This handsome and valuable catalogue is just out, and a copy will be sent upon application.

Coates Clipper Mfg. Co., Worcester, Mass., Alfred Field & Co., No. 93 Chambers Street, New York, sole agents, have just issued their 1898 catalogue of horse and toilet clippers and clipping machines. The catalogue contains a considerable amount of new matter and many additions to the descriptive matter over any previous catalogue. This company, established in 1877, are now in possession of a plant covering 25,000 square feet of floor space, devoted entirely to the manufacture of clippers. The catalogue, which is a pamphlet of 50 pages, fully illustrates a line of power clippers, combined with their Champion flexible shaft, and constructed to be used with stand or from hanger and shaft connections. Also fully illustrated are

PAN-AMERICAN R. R. BARROW.

With Round Steel Spoke Wheel
The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.



Write **THE KILBOURNE & JACOBS MFG. CO.**
COLUMBUS, O., U. S. A.

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839

SEYMOUR SHEARS ARE THE STANDARD

OILERS

25c. 10c.



Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—



The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

their hand clippers; horse and toilet are shown in large assortment, and at varying list prices, suitable for the trade of different sections, and complying with a large demand for export. Among the clippers, for the manufacture of which they have long been identified, are the centre tension "Magic" horse clippers, Nos. 19 and 79; double thumb nut clipper, No. 89; fetlock clippers, No. 9 and 71, and curved fetlock clipper, No. 81. A very popular clipper is the "Handy," No. 2; among the new styles more recently introduced may be mentioned the "Easy Running," Nos. 91, 101 and 111, and the "Ball-Bearing" clipper, No. 59; all of which possess original features that are fully described in the catalogue. Their line of toilet clippers, well and favorably known, are fully illustrated and described, from the low-priced varieties to those of the highest grade.

The Philadelphia Lawn Mower Co., Philadelphia, have condensed into a small space a great deal of valuable information, artistically presented in a catalogue of the "Genuine Philadelphia Lawn Mower for 1898." The cover is printed in gold, red and white, and the pages are filled with illustrations. description and prices of this most admirable and well-known line of goods In a prefatory note they call attention to the reasons why their mowers have held their supremacy, pointing out their simplicity. durability, lightness and easiness of handling; their possession of self-locking pawls that will not slip; the fact that the knives sharpen themselves while cutting; that the grass is thrown back clear of the cutter; and that they are honestly made of the very best material. They illustrate their styles M, S, T, C, L, K, A, E, so that anyone can size up the article itself in a glance at the illustration. They also illustrate their Philadelphia grass collector, Philadelphia lawn sprinkler, pony mower, horse mower, lawn sweeper, etc. This handsome little catalogue will be sent free to all applicants, as will also their repair list.

Walter W. Woodruff & Sons, Mt. Carmel, Conn., have published an attractive leaflet covering the announcement of their coach and carriage Hardware, in fine mountings, for the season of 1897-8. In this they state that they have purchased of the Atwood Mfg. Co., of Amesbury, Mass., their entire business of carriage mountings and all the patterns, tools and machinery pertaining to the same, and shall continue the manufacture of all such goods as are desired by the trade.

Gibbs Mfg. Co., Canton, Ohio, John H. Graham & Co., No. 113 Chambers Street, New York, agents, have recently issued their 1898 illustrated catalogue of Hardware and household specialties. They manufacture largely, lawn rakes and sprinklers, garden trowels and weeding hooks, post hole diggers, curry combs, mincing knives, vegetable mashers, can openers, etc.

IN HANDLING HANDLES

WHY NOT BUY THEM WHERE YOU GET HIGH GRADE AND LOW PRICES COMBINED?

WE SELL THEM EVERYWHERE.

ALWAYS PLEASED TO SUBMIT SAMPLES AND PRICES.

GEO. S. PARKES & CO.

NASHVILLE, TENN.

"PRODUCTIVE OF RESULTS."

Pope Mfg. Co., Hartford, Conn. [*Bicycles*]: While little advertising seems to be necessary this year to sell Columbia Bicycles, we still feel that our advertising with you is productive of results.

PROGRESSIVE AND ENTERPRISING.

Holmes & Edwards Silver Co., Bridgeport, Conn. [*Silverware*]: We recognize in HARDWARE a magazine progressive and enterprising.

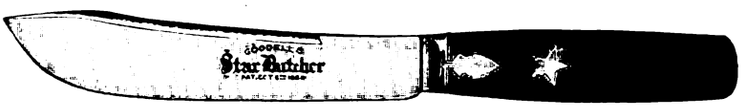
BEEN WITH YOU FROM THE BEGINNING.

Union Metallic Cartridge Co., New York. [Ammunition]: We have been with HARDWARE as advertisers from the beginning and expect to continue.

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Goodell Company, Antrim, N. H.

THE BEST



BUTCHER KNIVES



ON EARTH.

Also Carvers, Shoe Knives, Table Knives and Forks in great variety.

. . . CATALOCUE FREE . . .

AGENTS:

ALFORD & BERKELE CO, 77 Chambers St., New York. | M. C. RODEARMEL, 516 Boston Block, Minneapolis. | C. A. MAYDWELL, 23 Davis St., San Francisco. | G. W. HODGES, 216 Northern Office Bldg., Chicago. | HENRY KEIDEL & CO., 32 Hopkins Place, Baltimore.

NORTHAMPTON CUTLERY COMPANY,



Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office, Northampton, Mass.

New York Office and Salesroom 96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears

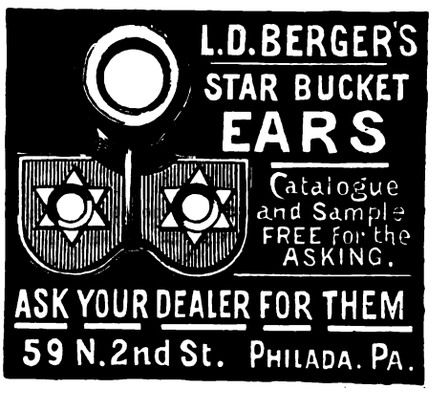
ACKNOWLEDGED THE BEST



Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

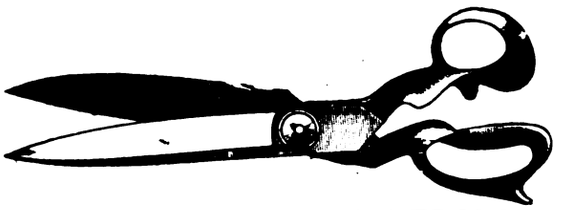
R. HEINISCH'S SONS CO.,

New York Office, 90 Chambers Street. NEWARK N. J.



WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

YOU SHOULD HANDLE THOSE MADE BY

J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .



Extra Quality Axes.

Wide Bit,	Long Island,
Rockaway,	Dock,
Post,	Ice.

UNDERHILL, CLINCH & CO.,

SELLING AGENTS,

No. 94 Chambers Street, NEW YORK.

TRADE B MARK

G.W. BRADLEY'S

SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Arenzville, Ill.—Huss & Batis.

Carthage, N. C.—A new Hardware store will soon be opened here by R. W. Carter of Manchester, Va.

Covington, Tenn.—The Covington Hardware Co. has been incorporated by W. T. Hamilton. Capital stock, $4500.

Elkton, Mich.—A. J. Aldrich.

Grand Rapids, Mich. — A corporation which will be known as the Clark-Rutka-Jewell Co., the stockholders of which are well-known local citizens, filed articles of association recently. The company will engage in the wholesale and retail Hardware business. The capital stock of the company is $25,000, all paid in. The stock is owned as follows: Melvin J. Clark, $10,000; John J. Rutka, $5000; Frank Jewell, $5000; Laurens W. Wolcott, $5000.

Hibbing, Minn.—T. H. Lees is preparing to open a Hardware store in the Van Horn building.

Ironwood, Mich. — The Prescott Hardware Co. has been incorporated with a capital stock of $25,000.

Kalamo, Mich.—A. H. Daugherty has established a stove business.

Leonidas, Mich.—Rev. F. M. Aunks contemplates establishing a new Hardware store.

Louisburg, N. C.—The Louisburg Hardware & Supply Co. has been incorporated by Joseph J. Barrow, Walter L. Payne and Jordan S. Barrow. Capital stock, $50,000.

Salem, Ore.—The Jewell Hardware Co; objects, to carry on a general mercantile Hardware business and buy and sell gold dust; capital, $20,000, divided into shares of $5; principal office and place of business, Grant's Pass; incorporators, L. L. Jewell, A. M. Jewell and S. S. Prentiss.

Trenton, Mich.—F. Bailey, Hardware and builders' supplies.

Wyandotte, Mich.—F. Kemp, F. Bailey and T. Wilkins will open new Hardware and shoe store.

In our issue of October 25th, the new store of Morris & Fields was located at Loogootee, Ind., whereas it should have been at Shoals, Ind., where they are carrying on a successful Hardware, tinware and stove business. They write us that because of this error, much of their mail is going to Loogootee.

Changes and Removals.

Asheville, N. C.—An important deal in local business circles was concluded when Claybrook James, of Richmond, Va., purchased outright the entire Hardware stock of the J. E. Dickerson Co., the purchase being made of Receiver J. E. Rankin, of the Dickerson Co. Mr. James assumed control of the business at once. Mr. James is a young man, but has had long experience in the Hardware business, and for eight years was connected with the Watkins-Cottrell concern of Richmond. He will conduct his new business under the name of the Asheville Hardware Co., and will have a valuable advantage in the fact that the Watkins-Cottrell Co. will allow him the use of their buyer in New York in the purchase of goods.

Coloma, Mich.—The Coloma Hardware Co., F. W. Witbeck, manager, is closing out its stock of Hardware at Coloma, and will consolidate its business at Millburg.

Darlington, Ind.—Seybold & Co., Hardware; A. K. Peterson has bought an interest in the business at Darlington.

Derry, N. H.—F. L. Bray, who has conducted the Hardware business for a number of years at West Derry, has sold his stock to John Gegenheimer, of Old Orchard. Mr. Gegenheimer will continue the trade at the old stand.

Denver, Colo.—The George Mayer Hardware Co. will remove to No. 1520 Arapahoe Street, when the alterations at new quarters are completed. The new location will be centrally located as regards any part of the city.

Melbourne, Ia.—J. B. Pence has sold his Hardware stock to his son-in-law, E. P. Miller, who will conduct the business.

New London, Ia.—W. B. Gannaway has purchased the interest of Mr. Benner in the Hardware firm of Rundorff & Benner, Burlington, Iowa. Mr. Gannaway has been actively identified with our business interests for several years and has a host of friends who will regret to see him leave.

Port Angeles, Wash.—H. C. Strong, the well-known Hardware merchant of this city, has sold a half interest in his business to Robert D. Willson, who recently removed here from Braddock, Pa. The combination makes a strong firm.

Warren, Mass.—John E. Walsh & Co., who have kept a Hardware store on Southbridge Street for several years, are disposing of their stock at auction, and will close up the store.

Business Embarrassments.

Calais, Me.—Frank Grimmer, the Hardware dealer on Main Street, has made an assignment for the benefit of his creditors. The store has been closed all week, and it is not known as yet whether Mr. Grimmer will open up again or not.

Kuttawa, Ky.—The Clinton Dycus Hardware Co. have assigned, naming Hon. W. J. Stone as the assignee. This was the largest Hardware concern in the county, and the assignment comes as a surprise to every one. Dull trade and slow collections are given as the cause.

Louisville, Ky.—Michael Heil, the Summit Street Hardware dealer, has assigned to E. D. Scrafford. The assets are about $1500 and the liabilities about twice that amount. A chattel mortgage for $672 in favor of Rosa A. Heil was filed before the assignment.

Marysville, Ohio.—J. P. Connor, Hardware, has made an assignment to Dr. A. Biylan. The liabilities are $6000, and assets $4000.

Nashville, Tenn.—Wm. Livingston, surviving partner of J. M. Hamilton & Co., dealers in Hardware, at No. 212 North College Street, has made an assignment to W. M. Pollard. He conveys to the assignee all of the stock in said store, notes, discounts, etc.

Taylor, Tex —Robertson & Prewitt, dealers in Hardware, saddles and harness, have made an assignment, with James G. Blaine as trustee. The liabilities amount to between $5000 and $6000, with assets of $6000. The firm was composed of M. V. Robertson and J. T. Prewitt, both of this place, and had only been in business a short while.

Washington, Ind.—R. S. Beeson & Sons. Hardware dealers of this place, have assigned. The liabilities are about $2500; assets, $1500.

Recent Fires.

Asbury Park, N. J.—Joseph D. Newlin, $4000.

Bangor, Me.—A clerk dropped a match into some loose powder in the Hardware store of Patterson & Porter, Mercantile Square, recently, causing a sudden burst of flames among cartridges and other explosives in that part of the store. The clerks fled and the fire spread rapidly, scorching the whole interior. The firemen came just in time to remove the box containing 25 pounds of powder, and then flooded the place with water. The loss is from $3000 to $5000, fully covered by insurance.

Baxter, Iowa.—J. W. Bisby, Hardware, damaged.

Center, Ind.—S. E. Lett, Hardware, destroyed by fire.

Farmersville, Tex.—T. E. Ball, implements, etc., damaged, at a loss of $1500 or $2000.

Gibsonburg, Ohio.—Mr. Shumaker, Hardware, store destroyed, at a loss of $21,000.

Johnstown, N. Y.—John G. Ferres. Badly damaged. Covered by insurance.

Marion, Ohio.—Fox & Kilbury, Hardware, store destroyed.

Montrose, Iowa.—Daniel Tripp, Hardware, damaged. Insured for $1900.

Pilot Mountain, N. C.—F. L. Smith, Hardware, damaged, at a loss of $2500; insured for $1500.

Pinconning, Mich.—Shook's Hardware store destroyed by fire.

Providence, R. I.—George Peterson, Hardware, damaged, at a loss of $10,000.

Nicholasville, Ky.—S. E. Holloway, Hardware, damaged by fire.

Burglaries in Hardware Stores.

Los Angeles, Cal. — Russell Hardware Co., $30.

Sanford, Me.—Prescott Emery, $25.

Smithville, Ohio.—Brenaman & Co., $200.

Yorktown, Ind.—Thomas Parkinson, $200.

Woodland, Cal.—M. Diggs, $350.

Wyandotte, Mich.—James Mate, $300.

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Measuring Faucet.

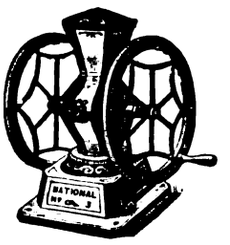

Tobacco Cutter.

We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

NATIONAL SPECIALTY MFG. CO.

Lehigh Ave. and Third St. - PHILADELPHIA, PA.


No. 3 Mill.


No. 1 Mill.

A First-class Hamburg Firm

Of wholesale dealers and agents in household goods, specialty enameled ware, with a large staff of agents all over the country, and doing a large trade with the Hamburg export firms, is open for the *import* of American household machines and similar goods; no bicycles. First-class bank references. . . .

Apply to "FOREIGN," care "HARDWARE," No. 143 Chambers Street, New York.

The Matchless Mop Wringer Co.,

A mop, wringer and pail at a price that will sell.

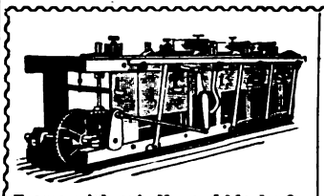
See current price list for the trade.

Discounts to Jobbers.

Canton, Ohio.

Send for Circular.




Frame with spindles and blocks for reducing and drawing wire rods, etc.

SPECIAL MACHINERY

WIRE drawing, CLAY working,
RUBBER washing, CHAIN WINDING,
CUTTING and WELDING machines,
POWER TRANSMISSION, Pulleys, Shafting,
Gearing Boxes, Collars, etc., etc.

TURNER, VAUGHN & TAYLOR CO.,
CUYAHOGA FALLS, OHIO, U. S. A.



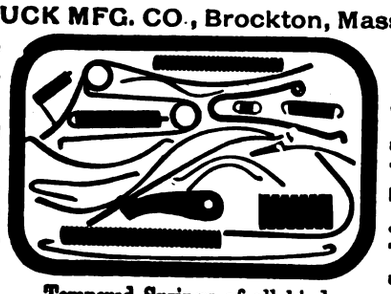
KEARNEY & FOOT CO.

100-102 Reade Street, NEW YORK.

The BEST Drill on the market.

TUCK MFG. CO., Brockton, Mass.

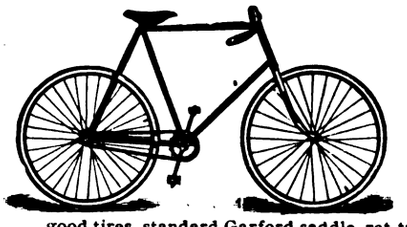
Springs, Tools & Cutlery.



Send for Tool Catalogue.

Tempered Springs of all kinds.





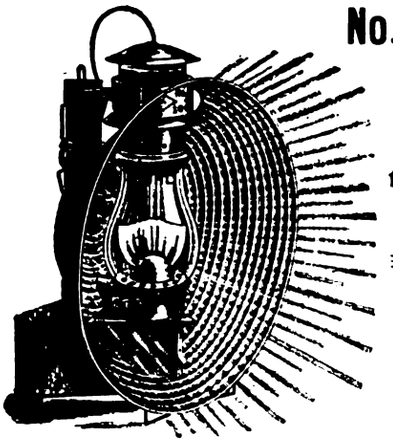
$18.00

Grand Clearing Sale '97 Stock.

A handsome, WELL MADE bicycle, '97 model, 1⅛ and 1¼ inch tubing, drop forged connections, tool steel bearings, good tires, standard Garford saddle, rat-trap or rubber pedals. Every machine GUARANTEED PERFECT. Just the thing to catch the late fall trade. Samples shipped C. O. D., subject to full examination, on receipt of guarantee of express one way. TIME IS MONEY. THEY ARE GOING FAST. Don't wait for lists. Order a sample at once. You can't lose anything. Special prices on machines without tires, saddles and pedals.

Say:—"I saw it in HARDWARE"

The BROWN-LEWIS CYCLE CO., Chicago.



No. 100 Buhl Tubular Headlight.

This remarkable Lantern will burn 48 Hours in Wind or Rain, on Land or Water. . . . .

16-inch Hood, 7-inch Nickeled Brass Reflector.

6 IN A CASE.

LIST, PER DOZ., $30.00.



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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over, are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Bay City, Mich.—George Reigel has established a new knife factory.

Brooklyn, N. Y. — The Edward Jones Tubing Co. has been incorporated by Edward Jones, to manufacture brass and metal tubing. Capital stock, $1800.

Detroit, Mich.—The Peerless Hose Coupler Co. has been incorporated by James H. Donaldson, Wilbur W. McAlpin and Louis E. Eastman, and will manufacture and sell hose couplers. Capital stock, $9000.

Eldred, Pa.—The new cutlery factory that was started at this place, of which C. Platts & Sons are the proprietors, is doing a fine business, and the firm recently added to their force of workingmen. The new building is well arranged for the accommodation of the men employed.

Evansville, Ind.—Robert K. Dunkerson, Samuel Bayard and Frank Lohoff have filed articles of incorporation for a company to be known as the Evansville Tool Works. The capital stock of the company is $100 000.

Keene, N. H.—The Reeves Anchor Mfg. Co. have filed articles of incorporation under the laws of New Hampshire. The capital stock of the company is stated to be $150,000, divided into 6000 shares of $25 each, and its business is to be the manufacturing, making, buying and selling of all kinds of machinery, tools, implements, and parts thereof, screws, rivets, anchors, builders' and manufacturers' Hardware. Mr. Reeves is the inventor of a patent anchor, and the company is formed, as appears by the record, to manufacture and deal in that instrument and a very large number of other things.

New York, N. Y.—Branches of the Corbin Cabinet Lock Co. and of the P. & F. Corbin Co. have been incorporated under the laws of the State of New York. The branch concerns will be used as agencies for the disposal of the goods manufactured at the New Britain plant. The directors are Philip Corbin and Charles H. Parsons, of New Britain, Conn.; William Bishop, Edward C. Jones and Frederic G. Dow, of New York city.

Pittsburg, Pa.—The Standard Steel Co., recently incorporated, have prepared plans for an immense plant to be located at Pittsburg. About 1000 men will be employed when operations begin. The company will manufacture Bessemer and open-hearth steel.

Waterbury, Conn.—The Boston Enameling Co. is a new concern which has opened business in the rear of No. 35 Benedict Street. It is to make a specialty of all sorts of enameling, including bicycle lamps, chandeliers and the like.

Waterbury, Conn.—The Standard Mfg. Co. was organized here a short time ago with Dr. S. G. Howd as president, W. A. Sparks, secretary and treasurer. The directors are Dr. S. G. Howd, J. L. Morgan and P. Concannon. They have leased the basement of the E. E. Brown machine shop on Edwards Street. The company will engage in the manufacture of tableware by a special process, and other patented specialties. The factory will be run under the superintendence of P. Concannon, a skilled mechanic from New Haven, who is also one of the directors.

Improved Conditions.

Cincinnati, Ohio.—B. B. Quillen, secretary and manager of the Davis & Egan Machine Tool Co., says: "A year ago we were about as busy as we are now on foreign trade, but we are doing fully twice as much home business as we did this time a year ago. During the past three weeks we have taken more orders in this country than during the previous two months. Almost every mail is bringing good home inquiries and orders, and the best part of it is they are coming from all parts of the United States. We feel pretty certain business is going to pick up very rapidly from now on. To back up our opinion, we just bought a new building across the street for $50.000, and will shortly have 150 additional men at work.

Hellertown, Pa.—The Thomas Iron Co.'s blast furnace, which has been idle for two years, has resumed operations.

Marion, Ind.—The Alexandria Wire Nail Works has been sold by S. G. Phillips to S. Free, who will put the plant in operation immediately.

Stockton, Cal.—The directors of the Stockton Agricultnral Works, which were destroyed by fire recently, have decided to rebuild at once.

Changes and Improvements.

Allentown, Pa.—The Sheriff has sold the plant of the Allentown Hardware Works to W. K. Ruhe, for the stockholders, for $26,000.

Anderson, Ind. — The American Wire Nail Co. has begun enlarging its plant and adding 25 more nail machines. The company has just enlarged its rod mill. Seven hundred men are employed.

Ansonia, Conn.—The name of the Driggs-Seabury Gun & Ammunition Co. has been painted in big letters on the factory of the Brady Mfg. Co.'s shop, as the latter company has been merged into the former, which will hereafter conduct the business of the Brady Co. The Brady Co., since locating here, last winter, has conducted a general machine business, its work being confined principally to small machine work, but it is now rumored that the new management is to enlarge the plant for the manufacture of Driggs' machine gun and other war implements.

Cleveland, Ohio.—The Ohio Brass & Iron Mfg. Co. will erect a new $9000 building.

Indianapolis, Ind. — The Indianapolis Stove Co. has settled in its new plant, the former Indianapolis Cabinet Works, and its large new foundry is completed. This, President Bennett says, is the largest and most complete stove foundry in the West.

Jackson, Mich.—F. R. Bassett, manager of the Challenge Churn Mfg. Co., located at Paw Paw, has been induced to move the works to Jackson. The work will commence as soon as the machinery can be removed here and set up.

Kankakee, Ill.—The Bradley Implement Mfg. Co. will erect a large new addition to their factory.

Martin's Ferry, Ohio. — The Laughlin Nail Co. will increase the capacity of the tin plant at this place to double its present size. The present plant was built in 1895, at a cost exceeding $200,000, and it is the intention of the company to duplicate it. About 500 additional men will be employed.

Millbury, Mass. —The Millbury Razor Co.'s plant will be moved from the old quarters at Charles Buck's shop on Canal Street, to more commodious quarters in W. G. Farnsworth's mill, better known as the "Dority Mill." The reason given for the change is that the business requires more commodious quarters and a plant where power can be had six days a week.

North Indianapolis, Ind.—The Reliable Edge Tool Co. has its new building completed and begun working there. This establishment started on a limited scale several years ago in a little building on St. Clair Street and soon built up an excellent reputation for an axe it manufactured, and which it is now selling in every State in the Union. In the new building it has added the manufacture of knives, and has ten expert workmen manufacturing bread knives of the finest quality.

Recent Fires.

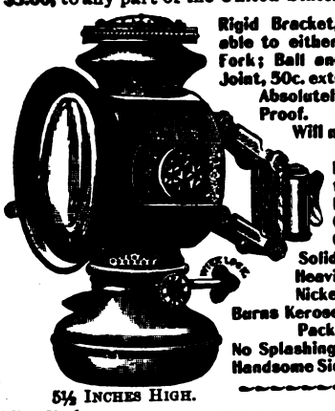
Brantford, Ont.—The most disastrous fire in the history of Brantford took place here October 26th, resulting in the serious injury of two firemen and the loss of property to the value of $75.000 to $100,000. At 5:30 the two hundred and twenty hands at the Verity Plough Works were busily engaged at their work, and there was not the slightest sign of impending danger, when suddenly the men in the big painting room on the third story at the top were startled by a column of fire which seemed to leap as if by magic from a tank of composition, composed chiefly of benzine and other inflammable stuff. In an incredibly short time the immense factory was a sheet of flame. The buildings were completely gutted. The Veritys have been working day and night for some time, and there was a very heavy stock of ploughs on hand. Mr. Verity stated that he valued the buildings and contents at a hundred thousand dollars. They carried fifty thousand dollars insurance. A good deal of iron work will not be much damaged. A loss of seventy-five thousand dollars will no doubt cover it.

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THE BANNER

Is the Cycle Lamp for '97.

None as handsome, as practical, nor as thoroughly and honestly made. Throws a powerful, broad light, having a **3-inch optical ground double convex lens.** No lamp so easily cleaned. Has removable top burner and reflector, removable and **reversible oil pot.** The only lamp made with a positive wick-locking device—it acts on the ratchet. Your dealer should have them; until he has will send, carriage paid, for **$3.00,** to any part of the United States.

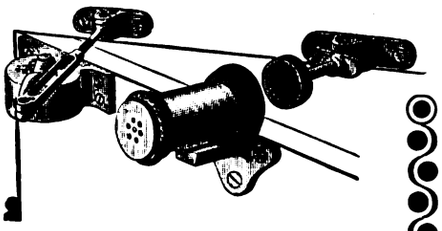


Rigid Bracket, adjustable to either Post or Fork; Ball and Socket Joint, 50c. extra.
Absolutely Wind Proof.
Will not Jolt Out.
No Solder to Melt.
Fills on Outside Oil Fount.
Solid Brass, Heavily Nickeled.
Burns Kerosene in Packed Fount.
No Splashing.
Handsome Side Lights.

5½ INCHES HIGH.

New York. Boston. Chicago. **PLUME & ATWOOD MFG. CO.**
FACTORIES: Waterbury and Thomaston, Conn.

The Whole World



uses the Eclipse Door Check and Spring. Everywhere it is closing doors noiselessly. Hardware dealers who sell it make a profit and find it a satisfaction-giving device that closes doors without any slamming and keeps out dangerous drafts. The Eclipse is suitable for all kinds of doors and in all places. We have reduced our prices for this season. Send for the new list, also for our new advertising matter.

Sargent & Co., Manufacturers,
New York; and New Haven, Conn.

"Copperized" o. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

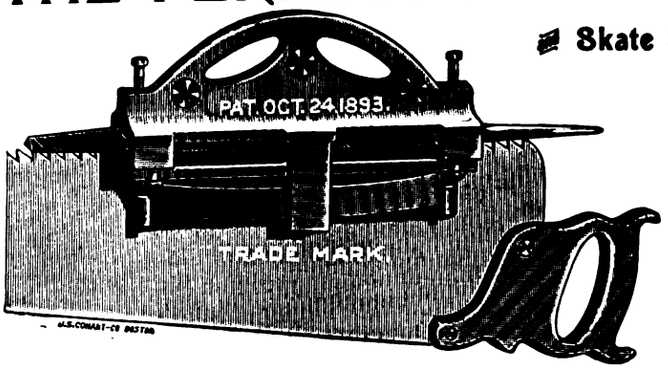
Hot & Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

THE PERFECT SAW JOINTER

Skate Sharpener.



Ad,ustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

Hastings & De Baun,

HARDWARE MANUFACTURERS' AGENTS,

124 Chambers St., New York.

NEW YORK OFFICE OF

THE PHOENIX HARDWARE MFG. CO.
MASON & PARKER. J. B. TATEM & SON.
THE BARNES TOOL CO. E. LOUD MFG. CO.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

A. N. JACOB, 491-493 Broadway, NEW YORK.

GEO. F. TAYLOR'S SONS,

80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

ALSO

BONE BLACK

For Tempering, Coloring and Filtering Purposes.

THE **CROWN**

Christmas Tree Holder

Is the only

TREE HOLDER

Made

That has

Stood the Test

. . . Of Practical Use.

Descriptive Circulars and Prices sent on application to



NORTH BROS. MFG. CO.,

New York Agents:
JOHN H. GRAHAM & CO.,
113 Chambers Street.

Philadelphia, Pa.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Bethlehem, Pa.—Harry Collins, the local inventor of the pneumatic bicycle hub, has been induced by the Sayre Land Improvement Co. to locate there, and has awarded the contract for the erection of a two-story brick factory, 50 by 250 feet. Land valued at $12,500 was presented to Mr. Collins, and Sayre capitalists subscribed $50,000 in cash towards the new industry. Reading, Allentown and Hazleton were after the new industry. The new industry will be in operation before the holidays. it is expected.

Camden, N. J.—The Hardware Mfg. & Exporting Co. has been incorporated to manufacture Hardware, and bicycles.

Dothan, Ala.—Simonton & Co., musical merchandise, will add a line of bicycles, and are inviting propositions from manufacturers.

Eustis, Fla.— George W. Church, jewelry, will add a line of bicycles. Correspondence with manufacturers invited.

Geneva, Ala.—Laniar Bros., jewelry, desire agency for a good bicycle.

Gloucester City, N. J.—Joseph Van Nest, one of our well known bicyclers, has opened a bicycle and repairing store on Market Street in the rooms formerly occupied by the Union League.

Harvey, Ill.—Gibler Bros., furniture, will add a bicycle department.

Madison, Ala.—Farley & Gillespie, drugs, desire agencies, with a view of adding a cycling department.

Owensboro, Ky.—Albert Hare is interested in bicycle company, with capital of $50,000, which is to buy out the Delker Co., of Owensboro. The new factory commences operations December 1, 1897.

Saginaw, Mich. — A stock company is being formed to manufacture bicycles, on a large scale. It proposes to put out a wheel at manufacturers' prices. George W. Emendorfer, manufacturer of wheels, will be the manager.

Sheboygan, Wis. — Fairweather & Wiegand have established a new bicycle livery and first-class repair shop.

St. Augustine, Fla.—A bicycle plant, etc., is to be brought to this city from New Jersey.

Syracuse, N. Y.—Olive Wheel Co. has been incorporated, with a capital of $300,000. It will begin business with $30,000 paid in. Its directors, all of Syracuse, are: Thomas Wheatley, Francis T. Gridley, Charles F. Bennett, Daniel W. Gridley and Frank Q. Alsop.

Changes and Improvements.

Alpena, Mich.—Steele & Weber, bicycles, reported to have been succeeded by Steele & Collins.

Beaver Falls, Pa.— The machinery and stock of the Morado Bicycle Co. have been sold at public auction to A. Saladin & Co., of Ensworth, for $2735. The stuff will be moved to another building and a factory started.

Charleston, W. Va.—Charleston Supply Co., bicycles, etc., reported to have been succeeded by Chas. W. Young.

Chatham, N. J.—Cyril G. Smith will remove his bicycle stock to the new store on Main Street, now being erected by Frank L. Kelley.

Covington, Tenn.—H. M. Moore, bicycles, has been succeeded by I. H. Lowenhaupt.

Dennison, Minn. — Steile & Austinson have added a bicycle repair department at their new quarters, on the corner of Flaten Avenue and Main Street.

Grand Rapids, Mich.— The Hamilton-Kenwood Bicycle Co.; John Duffy, the former secretary of the Fox Machine Co., is the new office manager.

Grand Rapids, Mich.—The Leather Grip Co. has been incorporated by Bert W. Fish, C. W. George. Arthur L. Smith, Alton A. Lyttl, William C. Shepard and James Warren Brown; to manufacture bicycle handle-bar grips, to deal in bicycle sundries and do a wood-turning business. Capital stock, $10,000.

Kenosha, Wis. — The Charles H. Sieg Mfg. Co. has increased its capital stock from $100,000 to $250,000.

LaPorte, Ind.—John Lonn & Sons, harness, etc., have purchased the plant, machinery, etc., of the Crown Cycle Co., and will push the bicycle business in connection with their other business.

Lockwood, Mo.—Bird, Thumser & Co., Hardware, bicycles, etc., have been succeeded by McDermid & Thumser.

Union City, Mich.—Boll & Spring, bicycles, etc., sold out to F. C. Boise.

New York, N. Y.—The Liberty Cycle Co. has been incorporated by Wm. I. Allen, William F. Wilson and John H. Holden. Capital stock, $100,000.

Owensboro, Ky.—The Delker Cycle Mfg. Co. contemplate increasing their capital stock, to enlarge operations.

Salt Lake City, Utah.— The Western Cycle Co., F. A. Margum, manager, have purchased the stock of the Salt Lake Cycle Co. They are also the agents for Cleveland and Crescent bicycles.

Springfield, Mass. — The Waltham Mfg. Co., manufacturers of bicycles, have decided to close the branch office in this city.

Toronto, Ont.—Bertram & Co., wholesale Hardware and bicycles, reported to have sold to Bertram, Wilson & Co.

Recent Embarrassments.

Baltimore, Md.— Heller & Snodeal, bicycles, reported to have applied for receiver.

Brooklyn, N. Y.—The Ideal Rubber Co., manufacturers of bicycle tires and druggists' sundries, at Nos. 28 and 30 Rodney Street, and Nos. 631 to 637 Kent Avenue, are offering to compromise with creditors at twenty-five cents on the dollar. The trouble is attributed to losses in the manufacture of bicycle tires, which branch the company began about two years ago. The business was started in December, 1887, by Anton C. Eggers, to manufacture druggists' sundries. He incorporated it in October, 1890, with a capital stock of $30,000, which was afterwards increased to $50,000, and he continued as president, with A. Van Praag as treasurer.

Buffalo, N. Y.—The Superior Cycle Mfg. Co. have made a general assignment to John F. Nagel. This was in accordance with a resolution adopted at a meeting of directors of the company. The company manufacture bicycles at No. 1453 Niagara Street, and the stockholders voted that the president and board of directors should make a general assignment to the concern's president, John F. Nagel, of No. 647 Spring Street. No preferences are named.

Chicago, Ill. — Fowler Cycle Mfg. Co. have made an assignment. The amount of assets and liabilities are not exactly known, but the liabilities are thought to be close on to $500,000, and the assets much less. The chief creditors of the firm are Hermann Boker & Co., manufacturers of tubing; the Anglo-American Cycle Fittings Co., of New York, and the Morgan & Wright Co., of Chicago.

Middletown, Conn.—Judge Davis of the Probate Court has heard the application of John Byrnes, of New York, a stockholder in the Worcester Cycle Mfg. Co., asking that the company be declared insolvent. The application was opposed by other stockholders, but Judge Davis found that the company was insolvent, and granted the petition.

Oxford, N. C.—The assignment of W. W. Jones, bookseller and bicycle dealer, has occurred, J. Crawford Biggs, trustee. The liabilities are about $1000 and the assets are not known.

Richmond, Ind.— The appraisement of the Richmond Bicycle Co. plant, which recently passed into the control of a receiver, was tendered to the court recently. It shows the assets to be $51,330.31 and liabilities $40,977.56. Finley Newlan, the receiver, reports that there will be a considerable shrinkage in assets when a careful examination of the appraisement is made,

Springfield, Mo.—The bicycle and sporting goods house of George Magnien, on College Street, has been closed by T. J. Delaney, trustee. The amount of assets and liabilities is yet unknown, though the assets will be $1200, with liabilities about equal. The business was opened in January, 1896, under the firm name of Burns & Magnein.

Recent Fires.

Lambertville, N. J. — The New Jersey Rubber Co., building for making bicycle tires, destroyed by fire. Insured for $7000.

Kingsville, Ont. — Howard Scratch, bicycle works, etc., destroyed by fire at a loss of $2500; insured for $1000.

Glens Falls, N. Y.—Budd Bros. Mfg. Co., destroyed by fire at a loss of $1500. Insured

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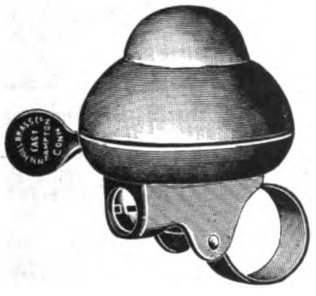
DON'T BUY BELLS UNTIL

You have seen New Departures for '98.

We have just what you want and everything you want.

JOHN H. GRAHAM & CO.,
113 Chambers St., New York.

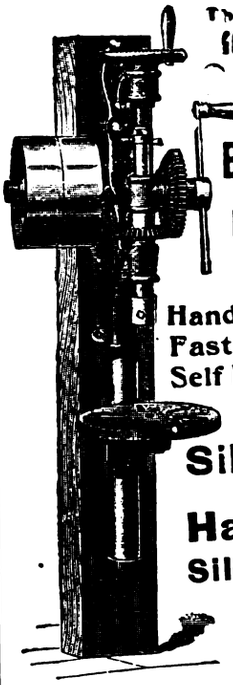
STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.



The "Advance" line Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.

CORBIN BELLS
THE BEST
BRISTOL BELL CO.
BRISTOL, CONN., U.S.A.

OHIO METAL CO.,
NORWALK, OHIO.



Awarded the Medal at Atlanta Exposition

Incorrodible Steel Hitching Post, ornamental and lasts a lifetime.

Automatically takes up slack of chain.

Freedom and comfort for animal. Safety and security for owner.

Ready Sellers.

Write for prices and secure exclusive agency for your city.



Deduct Freight from Price of Mill

This is the QUAKER CITY GRINDING MILL

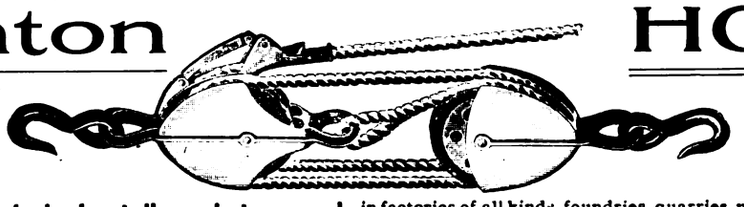
For CORN and COBS, FEED & TABLE MEAL. Improved for '97-'98. Send for all mills advertised. Keep the best—return all others.

A.W. STRAUB & CO.
Philadelphia, Pa. & Chicago, Ill.

We handle everything wanted at Chicago office, 4 S. Canal Street.

DUNBAR BROTHERS'
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM
SHEET STEEL, STEEL, BRASS WIRE
BRISTOL, CONN. P.O. BOX 416

The Canton HOIST



Can be used porpoudioularly, horizontally, and at any angle in factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics.

MANUFACTURED BY THE NEY MFG. CO, CANTON, OHIO.

THE SNAP SHOT MOUSE TRAP.



PATENT ALLOWED AUGUST 13, 1897.

The greatest improvement in Mouse Traps of the century.

SIMPLE, STRONG, SALABLE AND SELF-SETTING.

It kills the mice without mutilation.

Two-Hole Trap to Retail at Five Cents.
Four-Hole Trap to Retail at Ten Cents.

SAMPLES SENT FREE TO JOBBERS ON REQUEST.

Sales Agents, ALLERTON, CLARKE CO.,
No. 79 Reade Street, New York.

Export Agent, C. B. CORWIN,
No. 15 Whitehall Street, New York.

SOLE MANUFACTURERS, THE SPECIALTY NOVELTY CO., Lancaster, Pa., U. S. A.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $8.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.


HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.
Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
GENEVA, OHIO.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS
BALL BEARINGS
Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application

BEST INVESTMENT EVER MADE.
Divine Bros., Utica, N. Y. [Buffing Wheels]: Our advertisement in HARDWARE was the best investment we ever made in the advertising line.

. . . HEARTILY RECOMMEND "HARDWARE."
E. T. Barnum, Detroit, Mich. [*Wire Goods*]: We heartily recommend HARDWARE to those desirous of reaching the largest number of dealers.

EACH YEAR RECEIVED BETTER RESULTS.
Standard Tool Co., Cleveland, Ohio. [Tools]: During the five years we have had an advertisement in HARDWARE we have each year received better results.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced Hardware salesman, acquainted with buyers in the cabinet and furniture trades of New York and vicinity, to sell goods on salary or commission. German preferred. Address, stating age, experience, references and salary expected. J. N. T., care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

A FIRST class heavy sheet iron worker, who understands the laying off difficult patterns, and who can work well on high structures, and, if necessary, take charge of a gang of men. DOW WIRE WORKS CO., Louisville, Ky.

BOY wanted, about 15 years old; must have had experience in a retail Hardware store, be quick and bright; address by letter only, stating age, references, and salary to start. Address HARDWARE STORE, No. 2105½ Third Avenue, New York City.

WANTED—First-class traveling salesman to canvass manutacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

A FIRST class stove pattern maker wishes position in pattern shop, fast worker neat and artistic. Address GOOD MAN, care Hardware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

WITH a long experience, I can take charge of the manufacture of Hardware articles. Improve upon the article if necessary, or reduce the actual cost to its utmost. I am well known to handle men very satisfactorily. Addresss H. K., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, North Carolina.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

WANTED by a practical mechanic, with a good education and 17 years' experience in working iron and steel, managing help, buying of mill supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., careHARDWARE, No. 143 Chambers Street, New York

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport, Conn.

POSITION by a young man. Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober. can give reference; for further particulars, address G G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man 30 years of age wants position in store or road. Nine years experience in Hardware, stoves and hot air furnaces. Can figure estimates from plans and specifications. Good bookkeeper. Fine penman. A No. 1 reference as to honesty, sobriety, etc. Address LOCK BOX 34, Jeannette, Pa.

POSITION wanted by a practical man, who has held positions as tool maker, foreman and assistant superintendent. Up on modern methods and able to get out work at lowest cost. Address FREMONT, care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. Box 1464, Boston.

Side Line Wanted.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

LINE of legitimate Hardware wanted by traveling man of 12 years' experience with established trade through Iowa, Minnesota and Wisconsin. A No. 1 references. Address G. 100, care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference. Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City,

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

Side Line Offered.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

WE want salesmen visiting Hardware and harness trade to sell our new line of chain goods and sheet steel snaps. Great sellers! State present line; references, territory. IRA F. WHITE & SON No. 76 Park Place, New York.

WE offer good side lines to those calling on Hardware, harness, carriage manufacturers and department stores, both wholesale and retail. Address FERNALD MFG. CO., North East, Pa.

For Sale.

MUST be sold before the holidays, clean stock of Hardware with fine cash trade. Capital required $2500 to $3000. This is a Klondike for some one. P. O. Box 90, Castile, N. Y.

A good chance for business. $2.000 will buy stock and fixtures of a well established Hardware store, in a live and growing town of about 5000, in New Jersey, and numerous small towns around. Good business can be done. Proprietor has other business and cannot give his entire attention to it. Address C. B., care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S. M. care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE or on royalty to Novelty Concerns, a combination rigid and flexible coaster. Nothing like it. Cheap to manufacture. Thousands of them wanted. Boy's delight. A Klondyke for the party that gets it. Write quick for cuts, etc., to B. F. HOOK. Holmesville, Ohio.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address BOX 90, care HARDWARE, No. 143 Chambers Street, New York.

AN old reliable Hardware business in one of the most prosperous county seats in Ohio. Nice clean stock. This is a first-class opportunity for one or two persons to step into an established and profitable business Address immediately, MEEKER BROS., No. 85 North High Street, Columbus, Ohio.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Attention Agents.

AGENTS make $5.00 to $10 00 per day selling Aluminum Sign Letters, Door Plates, House Numbers, Street Signs, Aluminum Bicycle Chain Guards and Novelties; exclusive agency; write quick. J. W. BARNETT, Manager, Columbus, Ohio.

Agency Wanted.

RESIDENT agents wanted in all unoccupied territory to sell good paying article, used in stores, churches, schools and offices. Address A. M. SCHEFFEY & CO., No 92 Reade Street; New York.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10.000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.



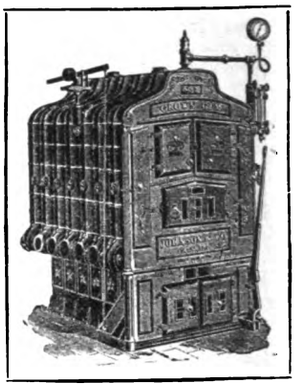
COVERT MFG. CO.,
WEST TROY, N. Y.
Derby Snap,
With Plated, Rust Proof and Guarded Spring.
"The latest and best."
For sale by Jobbers at Manfrs. prices.



BOOMER STEEL RANGE,
With High Closet.
Rolling Front. Six Holes. Stationary or Portable Reservoir.
Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.
WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.
When you want a GOOD FURNACE don't forget the
CELEBRATED BOOMER.
HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street, MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.
FOR HOT WATER and STEAM HEATING.
GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.
Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.
.... MANUFACTURED BY
JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.
CAN FURNISH THEM IN BRONZE, NICKEL OR OXIDIZED.
½ SIZE

Headquarters
FOR
ELECTRIC and PORTABLE
Watchman's Clocks.
Lowest Prices. Latest Improvements.
PATENTS 1888-1896.
Write for Price List and Card showing difference between N. Y. time and local time in all parts of the world
E. O. HAUSSURG, 41 Maiden Lane, New York.



THE "ALERT."
This is a One (1) Station Watchman's Clock
Price, with 400 paper disks, complete . $[illegible]

"DAILY FEEL THE BENEFIT."
Energy Mfg. Co., Philadelphia, Pa. [Dumbwaiters]: We daily feel the benefit of our card in your columns.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters..... } 40&12½%
Ship Carpenters..... }
Railroad. .....

Ammunition—

CAPS, PERCUSSION—per 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D .....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.25&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.. ...$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....25&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—per 1000—
B.E., 11 up.80c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&5%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags per bag.....$1.22
Drop Shot, sizes smaller than B, 5-lb bags, per bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, per bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, per bag.....$ .35
Buck Shot, 25-lb bags, per bag...$1.47
Buck Shot, 5-lb bags, per bag....$ .35
Chilled Shot, 25-lb bags, per bag..$1.50
Chilled Shot, 5-lb bags per bag..$ .35
Dust Shot, 25-lb bags, per bag....$2.00
Dust Shot, 5-lb bags, per bag....$ .50

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Duoking, kegs ..6¼ lb 2.25
(For 1000 lb lots 10% discount.)
Blasting and Mining, A...25 lb 2.25
Blasting and Mining, B. 25 lb 1.50
Laflin & Rand W.-A. Smokeless:
Sing'e Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.: In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$8.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black..... 41.00
Drum, equal in bulk to 100 lb, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks per 1000 .....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....per doz. $3.80
Galien Safety.....per doz. $3.75
Hartman's Pivot.....per doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....per doz $3.25
Western.....per doz. $3.75

Anti-Rattlers—

Fernald, Wire....per doz. pairs. .75
Burton's, No. 2....per doz. pairs. .75
Burton's, with bolt holder, No. 1.....per doz. pairs. $1.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, per lb 9c.....15@15&5%
Hay-Budden, Wrought.....8¾@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..20%

Augers and Bits—

Boring Machine .....75@75&10%
Cincinnati Tool Co.:
Bell hangers' bit.....40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug..... 25&10&10%
Cleveland Wood Bits for Brace. Style A, No. 114 .....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip..... 40%
No. 10 Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....30%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $14.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....35&10&10%
Clark's small, $18.00.....45%
Clarks' Large. $26.00.....45%
Ives' Model, per doz. $60....50@50&10%
Steer's No. 1, $28; 2, $18.....40%
Stearns' No. 2. $45.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond per doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, per gro. $2.75 @$3 25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood 40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&10@70%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard .....60&10@70%
Syracuse.....60&10@7 %

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's .....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, per gr.....$3 00@$3.25
H'ld Scratch per gr.....$3.75@$4.00
Pat. Peg per gr..... 3½@35c
Sewing, Com.....per gro. 85c@$1.00
Should. Peg per gr.....$1.35@$1.45
Shouldered Brad, per gr...$1.50@$1 65
Scratch per doz....$1.00@$1.10
Stanley Rule & Level Handled Brad..... .....40&10%
Patent Pegging.... .....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 per doz. $7.50; No. 20, per doz. $10..... 60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50....70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $15.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6 00; 75, $9.00; 175 $10.00 per dozen net.

Axes—

First quality, best brands. $5 00@5 25
First quality, other " $4.50@4.75
Beveled add 50c per doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $35.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's.... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....5 & 10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....10%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
per doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....per doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10%

Barrel Drainers—

National.....35%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....25%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's..... 40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List..... 75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand..... 50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable .....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....35&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..per doz. $5.
10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 per doz.....20%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, per doz. $15.00.....45%
Ives' per doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..per doz. $2..33⅓@33⅓&10%
Excelsior..per doz. $10.00....50&10&2%
North's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy gro. sets.....$5.50
Gorhams Improved Star Tenon gro. $1.00.....25%
Merriman's Brass Lever gr. $15.00
Merriman's Iron Lever gr...$9.00
Millers Falls set $1.00.....15&10%
Security Gravity gr.....$9.00
Van Sand's.....65&10%
Washburn's Plate gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining..... .$ 5
Pat. Automatic.....35%
Perfect Safety.....30%
Stowell Novelty Block.....50&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&5@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list50&10@5&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—

Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84.. 5&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $3.40 list.....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96.75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 26, '88..75@75&10%
Eagle.....85%
R. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—

Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—

Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....20%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	3.75

Bow Pins—

1¼ inch, ℔ gro.....$4.50@$5.00
inch, ℔ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No 108@114⅛.....60&10%
No. 208½@214½.....60%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@25%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
L. & L. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....35⅓&5@35⅓&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40&10%

CAST IRON—

Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronsed Inside Blind Butts.50&10@50&10&5%
Bronsed, Narrow, Fast Joint, Narrow, Fast Joint, Light Narrrow, Fast Joint, Broad, Loose Joint, Loose Pin, Table Butts, Back Flaps, etc.. 75%

Can Openers—

American.....℔ gross $1.75@$1.90
Champion, ℔ doz. $2.00.....50%
Columbian.....℔ gro. $14.40
Dunlap's Iron Handle, No. 3 ℔ gr. $13.00.....25%
Dunlap's Sardine Scissors, ℔ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ℔ gr. $8.00; ℔doz.75c
No. 5, Iron Handle, ℔ gr....$2.00@2.25
Sardine Scissors...℔ doz. $2.00@2.25
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70%
Universal, ℔ doz. $3.00.....55&5%
World's Best, ℔ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ℔ doz.75@$1.00
Cast Steel, Polished.....℔ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....℔ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal....℔ doz. $24.00
Grand.....℔ doz. $36.00
Grand Rapids.....℔ doz. $22.00
Hall.....℔ doz. $60.00
Prize.....℔ doz. $24.00
Premier.....℔ doz. $24.00
Superior.....℔ doz. $24.00
(Cyclone Bearings)
Crown Jewel, japan finish, ℔ doz $19.00
Crown Jewel, nickel, ℔ doz. $21.00
Furniture Protector, Japan.....℔ doz. $24.00
Furniture Protector, Nickel.....℔ doz. $27.00
"Standard A," Jap...℔ doz. $20.00
"Standard A," Nick..℔ doz. $22.00
Housewife's Delight..℔ doz. $15.00
Parlor Queen, Jap....℔ doz. $24.00
Parlor Queen, Nickel, ℔ doz. $27.00
Standard.....℔ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby.....℔ doz. $2.50
Child's.....℔ doz. $3.00
Little Jewel.....℔ doz. $7.00
Little Queen.....℔ doz. $4.00
Minsee.....℔ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phœnix).60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—

American.....60&10%
Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—

American Coil, Ass'n cask prices.

3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10@60&10%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Cherry Stoners—

Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale, Mix, Ohio Tool Co., P. S. & W., Sag Harbor Tool Co., Swan, Winsted Edge Tool Co. 75&10&5%
C. E. Jennings & Co. No 70...25&10%
Jennings & Griffin Mfg. Co.....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—

Barr.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to 2
Cold Chisels, good quality, ℔ 14c@16c
C. E. Jennings & Co.....20%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....25 to 2
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....20%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $3.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati.....25&10%
Carriage Makers', Sargent's, 50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....℔ doz. $3.25
Star Shank.....℔ doz. $3.50
Star Socket.....℔ doz. $3.75

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....20%
Barton's.....20@20&5%
Beatty's.....33⅓%
L. & L. J. White.....20@20&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40&10@60%
Samson.....℔ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ℔ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....25@25&10%

Counter Sinks—

Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....20%
Dixon's
Eclipse.....℔ gro. $3.75
Emerald.....℔ gro. 5.00
Oriole.....℔ gro. 5.00
Rainbow.....℔ gro. 2.81
Solid.....℔ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ℔ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40&10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ℔ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 30 in, ℔ doz $1.25@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....25%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, P. S. & W., Witherby, Watrous.....75& 10& 5%
L. & L. J. White.....25&5@25%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No, 12, ℔ doz.....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....40&10%

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Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓&
Ratchet, Ingersoll's.....30%
Ratchet, Merrill's.....20@30&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....30&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓&
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓&
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼ 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5(c. ea., less 5 %
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb., less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea., less 50%
Spark Coils, 12 pt.....$2.80 each, less 50%
Tape, Insulating, 8½c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF FF.
Kegs, ₩ lb.	4½c	5c	8c
½ kegs, ₩ lb.	4¾c	5¼c	8¼c
¼ kegs, ₩ lb.	5c	5½c	8½c
10 lb cans, 10 in case....	6c	6½c	8½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork Lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over).....	5.50	6.50	7.00
Dairy Pails, 14 qt.....	3.30	3.80	4.30
Fire Pails, 14 qt., stenciled "fire.....	3.40		
Fruit Bowls.....	1.20	1.70	2.00
Keelers, 11½ inch.....	2.30	2.80	3.10
Milk Pans.....	1.50	2.00	2.20
Mats, 8½ inch (for table use).....	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.....	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover).....	6.50		
Pitchers, 10½ in. high..	4.00	4.70	5.20
Peck Measures.....	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt....	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers).....	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4.00	4.50
Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2.00
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in., (or Wash Bowls,.....	2.30	2.90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓&
Second Quality Files.....30@30&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:

A 1, $4.00	No. 2, $2.50	No. 3, $1.50	No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (50c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&30%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....30%
Columbia, Spading.....30&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10 & 2½%
Manure, 5 and 6 tine .....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....30%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No.....	0	1	2	3	4
₩ doz..	$3.00	$3.75	$4.25	$4.75	$5.25
No.....	5	6	7	8	
₩ doz.....	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓&
Clapboard.....20%
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ₩ doz $2.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₩ gr. $1.50
Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets:
Assorted 1, 2 and 3.....₩ gr. $3.00
Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....40@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....30%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Wooding.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail, 40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....50&10@50%
Sargent's New List.....45@50%
Verree.....50&10@50%
Warner & Nobles New List..25&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 4c
3 to 5 lb.....₩ lb 3c } 75@80%
Over 5 lb.....₩ lb 2c
Wilkinson's Smiths....9½c@10c ₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&30%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....$	.90	1.00	1.05	1.25	1.50

50&10@40%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.05
Japanned, with Plate.....$1.10
Japanned, without Plate.....85c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60 @10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔&

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33½.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....35&10%
Brad Awl.....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $2.75@3.00
Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....50&2%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $3.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $36.00.....60&10&10%
Cronk's Steel cov'd Loose Axle, 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....60@60&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6 &5%
New Model.....4 &10%
Parlor, Standard.....4 &10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $14.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 65c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....(0&10%
Climax.....55%
Interstate.....60&15%
Magic.....50%
Matchless Covered.....60&10%
Wild West.....50%
Zenith.....55%
Baggage Car Door.....33⅓&
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&5%
Warner's Pat.....20&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....55&10@55&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&7½%

Hedge Shears—
Wm. Wilkinson & Sons 50%

Hinges—
WROUGHT IRON HINGES—
Corrugated Strap and T..75@75&5%
Rolled Blind Hinges Nos. 23 and 24 50&10@60&10&5%
Rolled Plate ..... 70&10@70&10&5%
Rolled Raised ..... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb. 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb. 2½c; 14 to 20 in., ₩ lb. 2¾c; 22 to 36 in., ₩ lb. 3 c
Strap and T..... 70@75&5%

SPRING HINGES—
Acme ..... 30@10%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $12.00
Geer's Spring and Blank Butts..40%
Gem ..... 30&10%
Zell's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $18.00
Oxford ..... 30&10%
Rex ..... ₩ gr. $12.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double..60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single ..... 7 %
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E...₩ doz $7.20 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State..₩ doz $4.20...60@60&10%
Reed's Latch and Hinges...₩ doz $12.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3..60&10@60&10 &5%
Western, ₩ doz $4.20.....60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 30&10%
Nos. 40 and 50 ..... 30%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13 ..... 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 50&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 30& 0 &5%
Champion Gravity Locking Nos. 7a ..... 50&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5. 50&10%
Tip Pattern, Nos. 1, 3 and 5. 50 &10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 10½ 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 30 &10%
Noiseless, Nos 50, 60, 66 and 65. 60%
O. S. Lull & Porter ..... 30&10&5%
Pioneer, Nos. 060, 45 and 5½ ..75&5%
Steam Boat Gravity Locking, No. 10 ..... 30&10&5%
Stranger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.30.....40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—
HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $2.50 net
Crescent Cultivator, 7 in. ₩ doz. $3 75 net
Crescent Double-B't 4 doz. $4.00 net
Crucible Cut-Easy..₩ doz. $4 50 net
Cotton ..... 8 & 12½%
Dunlap's Boys', Ladies', Toy....8%
Garden ..... 75&20%
Mortar ..... 75&25%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe... ....₩ doz. $3.75 net
Planter's ..... 80&15%
Texas Cut Easy ..... ₩ doz. $4.35 net
Warren Hoe ..... 60&10%

HYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes..$3.00@$3.25
Ringers ..... ₩ doz. 5 @75c
Perfect Rings ..... ₩ gro. $7.00@$7.50
Perfect Ringers ..... ₩ doz. 80c

Hollow Ware—
IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware...70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 0&10%
White-Ware ..... 25&10%

STOVE HOLLOW-WARE:—
Ground ..... 60&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans....62½@65%
Maslin Kettles....75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&10&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co.... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—
BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00 Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list...60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list...5 &10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list....50@50&1 %
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $3.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 30@30&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme...60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard....45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.6 ; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4½c

Horse Nails—

	Nos. 6	7	8	9	10
A. C	25c	23c	22c	21c	21c.

40&10%
American, all sizes, 9½@10c ..... net
Ausable ..... 23c 23c 25c 24c 23c. 40&10&5%
Anchor ..... 23c 21c 20c 19c 18c 40%
C. S. K 25c 23c 22c 21c. 21c 40%
Capewell ..... 19c 18c 17c 16c 16c..10&5%
Champlain..23c 23c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 18c 15c 14c. 30&10&5%
Empire Bronzed 10c
Essex ..... 23c 23c 25c 24c 23c. 40&10@50%
Lyra....9½c 9½c 9½c 9½c 9½c., net
Maud S.....25c 23c 22c 21c. 21c 50&10&5%

Nos. 6 7 8 9 10

Northw't'n.	25c	23c	22c	21c	20c.
Putnam	23c	21c	20c	19c	18c 25%
Snowden,	9½c	9½c	9½c	9½c	9½c., net
Vulcan	25c	21c	20c	19c	18c 25%
Western, 5 to 10d 9c					

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 40&10%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick....₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20..25%
No. 34 ..... ₩ doz. $15.00..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.50,..20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel ..₩ doz. $1.70@1.80
Drawer, Porcelain.60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 42%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlight, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.00
No. 2 0 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L ..... 70&10%
Styles A., and E ..... 60&10%
Styles, D., D. O. W., M., S., T.. Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel. 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 25%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co. Philadelphia Lawn Sprinkler: No. 1, No. 2, No. 3, ₩ doz. $12.00 $15.00 $24.00..25%

Lemon Squeezers—
Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40 ..... 30%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $5.25 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.60
Jennings' Star...₩ doz. $1.90@$2.10
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood....₩ doz. $6.00 20&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 25&10%
Iron Bench, new design....25&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's..50%
Cotton Chalk, 50 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 30%
Wire Clothes, 100 feet, No. 18, $3.25; No. 19, $3.00; No. 20, $1.75

Locks—
DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 50&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 30&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co's:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 22 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 25%
Stoddard Lock Co ..... 30@33⅓%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Dietz 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 3 ..... 40&5%
Scandinavian ..... 30&40@30&40&10%
Smith & Egge Bicycle 50%
Wrought Iron ..... 75@80%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 25%
Eagle 25%

Mallets—
Sargent's List
Hickory ..... 50@35&10%
Lignumvitæ ..... 50@35&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters–

American.....30%
Nos.....1 2 3 4 5 6
Each..$5 $7 $10 $25 $50 $60

Beef Shavers (Enterprise).....30%
Chadborn's Smoked Beef Cutter, ₩ doz $80.00
Dixon's.....₩ doz 33⅓%
Nos.....1 2 3 4
$14 $17 $19 $30

Enterprise.....25%
Nos.....10 12 22 33 42
Each...$3 $3.50 $4 $6 $15

Hales Pattern ₩ doz.....70@70&5%
Nos.....11 12 13
$27 $33 $45

Home No. 1..₩ doz $35.....60%
Little Giant.....50&10%
Nos. 305 310 313 320 323
325 $43 $44 $73 $93

Miles' Challenge ₩ doz...45@45&10%
Nos.....1 2 3
$23 $30 $40

Perfection.....net
Woodruff's ₩ doz.....33⅓%
Nos.....100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name.....₩ lb..18c
Mystic.....₩ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ₩ doz.$12.00

Nails—

WIRE AND CUT NAILS—

See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1893.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....80%
Wire Nails.....80%

FIXTURES—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list..40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....₩ doz $18.00, 20%
National.....40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—

Buck Bros.....37½%
Cannon's Diam'd Point ₩ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6 30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable, Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@50%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ₩ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ lb..... .50
No. 1..... .40
No. 2..... .30

Pike's Washita Round Edge Slips: 3 to 5x1¼ to 2⅝ to ⅝ at back, ⅛ to 5-16 edge ₩ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ₩ lb..... .70
Discount 33⅓%.

Pike's Washita Mounted No. 1:
8x2, ₩ doz.....$12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.

Pike's Washita Axe Stones:
About 2x2x¾ to 1¼, ₩ lb..... .35
" 2x2x⅞, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston".....50%
"Excelsior" Self-Vulcanizing, per lb 70c.....40%
Boston "Phœnix" Red Sheet, per lb.....50c. net
Extra.....60&5@60&10&5%
Standard, Fair Quality..70&10@75%

MISCELLANEOUS—

American Packing.....9c@10c ₩ lb
Cotton Packing.....14c@15c ₩ lb
Italian Packing.....13c@14c ₩ lb
Jute.....6c@7c ₩ lb
Russian Packing.....13c@14c ₩ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance.....₩ doz $4.50
Baldwin.....₩ doz 5.00
Bonanza.....each 5.00
Daisy.....₩ doz 3.50
Dandy.....each 7.50
Eureka, 1898.....each 16.00
Family Bay State.....₩ doz 12.00
Favorite.....₩ doz 5.00
Gold Medal.....₩ doz 4.00
Ideal.....₩ doz 4.00
Improved Bay State.₩ ds..$37@30.00
Little Star.....₩ doz 4.00
Monarch.....₩ doz 12.50
New Lightning.....₩ doz 5.50
Oriole.....₩ doz 4.00
Penn.....₩ doz 3.00
Perfection.....₩ doz 4.00
Pomona.....₩ doz 4.00
Reading, 73.....₩ doz 4.00
Reading, 78.....₩ doz 7.00
Rocking Table.....₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable.....₩ doz 4.50
Victor.....₩ doz 12.50
Waverly.....₩ doz 3.75
White Mountain.....₩ doz 4.00

POTATO—

Antrim Combination....₩ doz 5.50
Hoosier.....₩ doz 12.50
Saratoga.....₩ doz 5.50
White Mountain.....₩ doz $4.50

Pencils—

Dixon's:
Carpenters'.....₩ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....₩ gro. 9.00
Lead.....₩ gro $4.50
Lumber.....₩ gro. 6.37
Mascot, Hexagon.....₩ gro. 4.38
Mascot, Round.....₩ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....75%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—

Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....35%
C. E. Jennings & Co.'s Iron.....50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4 80 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's...50&10&10@50&10&10&5%
Miscellaneous.....35&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle"..... Ohio..... Sandusky..... } 30&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....35&10%
C. E. Jennings & Co.....35&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....20&5@25%

Pliers and Nippers—

Button's.....70&10@70&10&5%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13 50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....30%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's.....75&10&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....₩ lb 8c
Joseph Dixon's.....₩ gro $5.75, 10%
Gem.....₩ gro $4.50, 10%
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Poppers, Corn—

Round or square, 1 qt., ₩ doz. $ .75; ₩ gr. $8.50 } 10@ 1½ qt. ₩ doz. $ .85; ₩ gr. $9.00 } 15% 2 qt., ₩ doz. $1.15; ₩ gr. $12 00 }
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4 00.....33⅓%

Post Hole Diggers—

Ryan's.....₩ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Disston's Combined Pruning Hook and Saw...₩ doz $18.00, 25@25&10%
Disston's Pruning Hook.....₩ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....₩ doz $3.50, 50%
Henry's Pruning Shears ₩ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$3.50@3.75
Waters Tree Pruners.....75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $12.00, 25&10%

Pulleys

Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@ 0%
Ceiling.....50@ 60&10%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%.
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 60&5@60&10%
F. E. Myers & Bro.:
No. 1, Fig. 338, 3 in. Shallow Well Pump.....$12.00
No. 8, Fig. 338, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14 Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 33, Fig. 523, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 333, 3½ in. Shallow Well Pump.....$17.00
No. 70 Fig. 333, 3½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 103, Fig. 443, 3 in. Lift Pump.....$10.00
No. 103, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 235, Fig. 389, Windmill Pump.....$12.50
No. 230, Fig. 403, Windmill Pump.....$12.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 406, Regulator Pump.....$20.00
No. 280 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 285, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 287, Fig. 493, Geyser Tank Force Pump.....$17.00
No. 288, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 320. Fig. 493, Bucket Spray Pump.....$5.50
No. 33 , Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive,.....50@5%
Check.....55%
Spring.....50&5%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&2%

Rail—

	Barn Door, In.	⅛	¼	⅜
	Per 100 feet	$1.40	1.55	1.80

Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....2½c
B. D. for N. E. Hangers:

	Small.	Med.	Large
Per 100 feet	$1.60	2.00	2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2½c
Common.....₩ foot, 2½c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $3.40
Stowell's Wrought Steel.....25%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft 3c
Sliding Door, Wr't Brass, 1½ in. ₩ ft, 25c.....60&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot. 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00

Gibbs':
Acme.....net ₩ doz. $4.05
Boss, Garden, 14 teeth, net ₩ doz. $3.60
Boss, Garden, 18 teeth, net ₩ doz. $3.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.20
Lawn Rake.....₩ doz. $4.75
Malleable.....70&10@75%
Oneida Lawn.....doz. $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....30%
Westenholm and Butcher, $10.00 to $.....10%

Registers—

Stowell's:
Japanned.....30&10%
Nickel-plated.....70&10%

HOT AIR—

Ferrosteel Japanned.....8%&10%
Ferrosteel, Nickelplated.....75&5.0%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

American Screw Co.:
Bay State Rivets..... ...75&10%
Burrs.....75%
Soft Steel.....80%
Copper.....60&10&5@60&10&1%
Norway, list Feb. 26, '96.....70%

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Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....₩ ℔ 13 @14c
Medium, ¼ in. and larger.....₩ ℔ 10 @12c
Common, ¼ in. and larger.....₩ ℔ 8½@10c
Jute Rope.....₩ ℔ 5½@5½c
Manila:
7-16 in. and larger.....₩ ℔ 6 c
½ in.....₩ ℔ 6½c
⅜ and 5-16 in.....₩ ℔ 7 c
Hay Rope, Med.....₩ ℔ 6 c
Sisal, ½ in.....₩ ℔ 5½c
¼ and 5-16 in.....₩ ℔ 6 c
7-16 in. & larger.....₩ ℔ 5 c
Med. L'th Y'rn.....₩ ℔ 4½c
Hay Rope.....₩ ℔ 5 c

Rules—

Athol, Steel.....33⅓%
Boxwood..30&10&10&10@30&10&10 &10&10%
Ivory.....60&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¾c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, ₩ doz.....$7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$7.00
No E 55 plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $5.25
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz. $9.50
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$7.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$8.00
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $22.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 3@3½c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@ [illegible]%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@ 9c
Common Russia Sash.₩ ℔ 12½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 38c
"Samson" Braided Linen, ₩ ℔ 56c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White, ₩ ℔ 50c. 35@40% 15@15&7½%
B Quality, Drab, ₩ ℔ 35c.....
B Quality, White ₩ ℔ 30c.....
White Cotton Braided, ₩ ℔ 21c@22c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....30%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip..... .. 25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McFarlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10&50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished..₩ doz.. $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $10.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $28.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@ $18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$2.00@$2.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@60&10&5%
Scale Beams, List Jan. 12, '92.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $4.00.....40&10%
Box, 1 Handle.....₩ doz., $2.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension.....60&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&35%
Fancy Pine.....15%
Painted.....50&5%
Stained.....50&10%
Standard Oil.....35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....27½%
Champion.....40&10%
Disston's.....5@50c.$10
Pat. Excelsior.....5 &5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
105 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
143 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....₩ doz., 50@75c
Screw-Driver Bits, Parr's ₩ gro.$6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....80c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....20%
Brass, Round Head.....25%
Bronze, Flat Head.....37½%
Bronze, Round Head.....25%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Drive Screws.....20%
Iron, Bright Flat Head.....20%
Iron, Br't R'd & Oval Head.....25%
Iron, Forged Flat Head.....20%
Nickel Plated, Flat Head.....60%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

Brass, Flat Head.....45%
Brass, Round Head.....40%
Iron, Flat Head.....45%
Iron, Round Head.....40%

BENCH, HAND, ETC.—

Bench, Iron, ₩ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech. ₩ doz $2.00@2.20
Chair.....60&10%
Coach.....82½%
Hand Rail Am. Screw Co.....82½%
Hand Rail, H. & B. Mfg. Co.....80%
Hand Rail, Sargent's. ...70@70&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's.....75%
Jack Screws, Stearns'.....40&10%
Lag Blunt Point, list Jan. 1, 1890. 75&20@80&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $3; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....20%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise.....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, ₩ Set.....$7.25
Surrey, No. 9, ₩ Set.....$2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....40&10%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs. ₩ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears.....30&10@40%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1898.....50&10@50&10
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&5%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15 .. $3 40
Perkins Improved Snow.....₩ ℔ 4c

MULE—

Add 50c ₩ keg to above prices.

OX, WROUGHT—

Ton lots.....₩ ℔ 9c
1000 ℔ lots.....₩ ℔ 9½c
500 ℔ lots.....₩ ℔ 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....60@71½%
Pat. Cast Steel.....71½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&10%

Sifters, Flour—

Hunters' Genuine, ₩ gross, $10@11.50

Skate Sharpeners—

Eureka...₩ doz. $1.75; ₩ gro. $15.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro $20.00 @$27.00
Kraut Cutters.....50@50&10%
Woodrough & McFarlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....6%
Cockeyes.....70&10%
Covert Mfg. Co.....45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier..... 45&2%
Loop Eye..... @50%
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
Covert Saddlery Works:
Banner..... 60&20%
Triumph..... 60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron..... ₩ doz. 5&10%
Millers Falls..... 15&10%
Seymour Smith & Sons, Iron..... 20%
Wm. Johnson's:
Wood, Best..... 30%
Wood, 2nd Quality..... 33⅓%
Wood..... ₩ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Cen. Stamp. Co's list. 75&10@30%
B. B. Noyes Meat Forks..50&10@50%
Buffalo S. S. & Co..... 33⅓&2%
Solid Table and Tea, Cen. Stamp. Co.'s list..... 70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son..... Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros. 40&15%
C. Rogers & Bros..... 40&15%
Rogers & Bro..... 40&15%
Wm. Rogers Mfg. Co..... 60%
Simpson, Hall, Miller & Co..... 60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B"..... net List.
Nickel Silver, Catalogue "B" net List
Britannia..... 60&10%
German Silver..... 60&10%
German Silver, Hall & Elton..60& 5% cash
Wm. Rogers Mfg. Co.:
1847 Rogers' German Silver...60&5%
1881 Rogers' Nickel Silver....60&5%
Rogers' Silver Metal.....60&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares..... 25%
Try Square and T Bevels.60&10&5
@60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10 @75&10 &10.
Steel and Iron.. }

Stair Rods—

Black Walnut..... 60%
Brass, Oval or Hollow..... 50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₩ lb..... 6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods..... 35@40%
Gardner..... 33⅓&10%
Lightning Screw Plate..... 25%
Reece's New Screw Plates.... 25@30%
Waterford Goods..... 35@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '96.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks..... 90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
America, Tinned...90&10@90&25%
Leathered..... 60%
Steel..... 90&20%
Swedes, Lanc..... 85&10%
Swedes, S. S..... 90&25%
Swedes Iron Tacks:
Lanc..... 85&10%
S. S..... 90&10 &5%
Basket Tacks..... 75&10%
Basket Nails..... 80%
Bill Posters' and Railroad Tacks:
S. S..... 90%
Brush Tacks and Nails..... 75&15%
Chair Nails..... 80%
Cigar Box Nails..... 75%
Common and Patent Brads..... 80%
Finishing Nails..... 75%
Gimp Tacks:
Lanc..... 80&20%
S. S..... 90&15%
Hungarian Nails..... 85&10&5%
Lace Tacks..... 80&20%
Lanc..... 80&20%
Looking Glass Tacks..... 70%
Picture Frame Points..... 70%
Trimmers' Tacks:
Lanc..... 80&20%
S. S..... 85%
Trunk and Clout Nails:
Black..... 80&5%
Tinned..... 80&10&5%
Upholsterers' Tacks:
Lanc..... 80&20%
S. S..... 90&10%

MISCELLANEOUS—

Bill Nye Brad Box..... ₩ box $4.00
Bill Nye, Jr., Brad Box. ₩ box 2.00
Bonnie Blue..... ₩ box $1.50
Can Opener Carpet Tacks. ₩ gr $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks...₩ gr $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton..... 50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " ...1.50
Little Jack..... ₩ doz. $1.00

Tapes, Measuring—

American..... 40&10@50%
Chestermans..... 30@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw..... 70%
Blacksmiths' Taper..... 50&10@60%
Hand and Machine..... 50&10@60%
Pipe..... 80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.30
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co..... 33⅓%
Snips—"Clauss"..... 30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&5%

Tobacco Cutters—

National Specialty Co..... 30&5%

Trammel Points—

Backus and Union..... 40%
C. E. Jennings & Co., "Eureka". 25%
Cook's..... 25%
Sargent's.....70&10@70&10&10%
Stanley's..... 30&10%
Tower & Lyon..... 33⅓%
Prentiss'..... 20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₩ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P. Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ₩ doz..... $3.00
Hanging Hooks for Double Steel Track, ₩ doz..... .80
Hanging Hooks for Single Steel Track, ₩ doz..... .80
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$3.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each..... $1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes). $12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz.. .....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch ₩ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single rail Steel Track with clampe, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track..... $6.00
Walker Fork, each..... $1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—

Ajax..... 50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent..... 7@7 &10%
Dicksons..... 60%
Nickel Plated..... 60&10%
Payson's Solid Grip, Nos. 3 & 3½..... ₩ 100, $12.00
Shaw's:
Copper Finished..... 80&10%
Lever..... 70@70&10%

Traps—

GAME—

Blake's Patent..... 60@60&10%
Enterprise Mole..... 15%
Newhouse..... 40&10@50&5%
Onelda Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole..... 15%
Rat..... 40@40&10%
Housenoid..... ₩ gr $10.00
Hotchkiss:
Metallic Mouse,..... ₩ doz. 65c
Improved Rat..... ₩ gross, $12.50
New Rat..... ₩ gross. $12.50
Mouse, Bonanza.... ₩ doz 90c@$1.00
Mouse, Catch-'em-alive ₩ doz $2.50, 15%
Mouse, Delusion..... 40%
Mouse, Ideal..... ₩ gr $9.00
Mouse, Round Wire. ₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz notes 10c@90
Schuyler Rat Killer, No. 1 ₩ gro., $13.50; No. 2 ₩ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00

FLY-

Balloon, ₩ doz $1.25..... ₩ gr. $13.50
Electric Rod..... ₩ gr. $16.50
Globe..... ₩ doz., $1.25; ₩ gr. $13.50
Harper.... ₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick..... 25@33⅓%
Disston's:
Brick..... 30%
Plastering..... 25%
Pointing..... 30%
C. E. Jennings & Co.:
Brick..... 30%
Plastering..... 25%
Pointing..... 30%
Wm. Johnson's:
Brick..... 40%
Plastering..... 40%
Pointing..... 40%
W. & McP. Plastering....25@25&10%
Peace's Plastering..... 25@25&5%
Richardson..... 25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1..... 70%
Sargent's Garden, No. 15..... 50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box..... 50&10@60%

PARALLEL—

Alligator..... 50%
Armstrong's:
Combination..... 50%
Plain and Hinge..... 60%
Athol, Oval Slide..... 60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's..... 40@40&10%
Howard's..... 40&10%
Little Giant Bench..... 35&10&5%
Lowell Hand..... 33⅓%
Massey's Quick Action ..... 20&2%
Merrill's..... 20&15%
Millers Falls, Mechanics'...net@10%
Moore's..... 20%
Parker's..... 20@25%
Oval slide.. ..... 50&10%
Victor..... 30%
Prentiss..... 20@25%
Sargents..... 7&10%
Simpson's Adjustable..... 50%
Stephens'..... 20@30%
Trenton.....40&50@40&10%
Wilson'..... 55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00..... 60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33..... 33⅓%
Wentworth's..... 35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor..... 60&20%
Daisy..... 60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ₩ gross. $3.50@$12.00

American Whip Co.:
List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft $10.50; 6½ ft., $12.00; 7 ft., $13.50 7½ ft., $15.00; 8 ft., 16.50.
Americus, 93 Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 ft., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $10.00; 6 ft., $16.50 6½ ft $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft..... $6.00
Gents' Light Driving, No. 106, 6 ft..... $5.00
Hand-Made Stocked Java, No. 103.....5½ ft., $3.75; 6 ft., $4.00
Hardware Assortment 10 | American, 75 Whips for..... $50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....₩ doz $2.00@$7.50
True Grip, Raw Hide Center, 4½ ft. $5.00; 5 ft., $6.00; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.50; 7 ft. $9.00.

Window Cleaners—

Barnes Mfg. Co..... 40%
Clayton's..... 35&10%

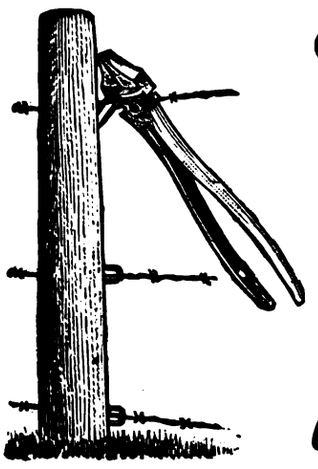
Window Stop Adjusters—

Taplin,s "Perfection"..... 10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire..... 35%
Bright Wire Goods. Standard list 35&10@35&10 &10%
Cast Steel Wire..... 50%
Copper Wire..... 45%
Galvanized Fence..... 75&10%
Malin's Annealed and Tinned on Spools..... 60&10%
Malin's Brass and Copper on Spools..... 30&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@7. &10&5%
Galv., Nos. 0 to 18.75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire..... New list 35&10%
Steel Music Wire, Nos. 12 to 20, Imported, ₩ lb..... 60@70c
Stub's Steel Wire.....$6.00 to $ 20%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb..... 4½c
Wire Clothes Lines, see Lines.

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Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

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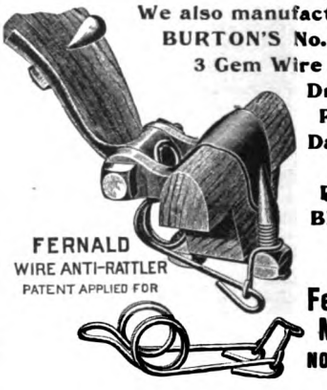
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Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....2½&2½&2½ cash
Iron.....20&2½&2½ cash
Iron, Galvanized..20&2½&2½ cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Acme:
Bright.....60@60&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....30@30&10%
Aiken's Pocket (Bright)..$2.10@3.20
Alligator.....60@60&10%
Always Ready.....33⅓&50&40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
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Brigg's Pattern.....30&10%
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Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
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Hall's Pipe.....50%
Hercules.....70&10@75%
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Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Lag Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....30%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894, 2%
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1893...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....79c
Linseed, City, Boiled, in barrels ₩ gallon.....74c
Out of Town on Spot..₩ gal.....89c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 89@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....5c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 8@8½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@—c
In machine bbls.....35@—c

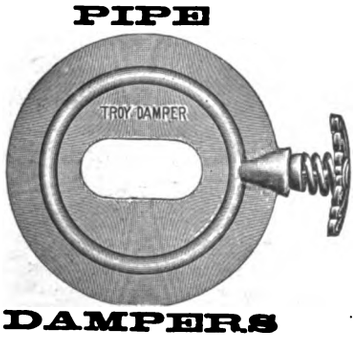
Dry Colors—

Blue, Chinese	₩ lb 37	@40
Blue, Prussian	₩ lb 30	@35
Blue, Ultramarine	₩ lb 8	@25
Sienna, Ital'an, burnt & powd red	₩ lb 3½	@5 c
Sienna, Italian, raw & powdered	₩ lb 3	@4½c
Umber, Turkey, burnt	₩ lb 2½	@3½c
Umber, Turkey, raw	₩ lb 2½	@3 c
Green, Chrome, Common	₩ lb 5	@12 c
Green, Paris, in bulk	₩ lb 11½	@12½c
Indian Red, American	₩ lb 2	@3 c
Indian Red, English	₩ lb 4½	@8

Colors in Oil—

Black Coach Japan	₩ lb	18½@20
Black Coach Japan, in Oil	₩ lb 12	@13 c
Black Drop	₩ lb 7	@10 c
Black Lampblack	₩ lb 20	@23 c
Black Lampblack, common	₩ lb	7@15 c
Blue, Chinese	₩ lb 35	@40 c
Blue, Prussian	₩ lb 30	@40 c
Blue, Ultramarine	₩ lb 12	@18 c
Brown, Sienna, bur't	₩ lb 8	@12 c
Brown, Sienna, raw	₩ lb 8	@12 c
Umber, burnt	₩ lb 7	@10 c
Umber raw	₩ lb 7	@10 c
Brown, Vandyke	₩ lb 7	@12 c

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ALASKA, ALWAYS COLD.

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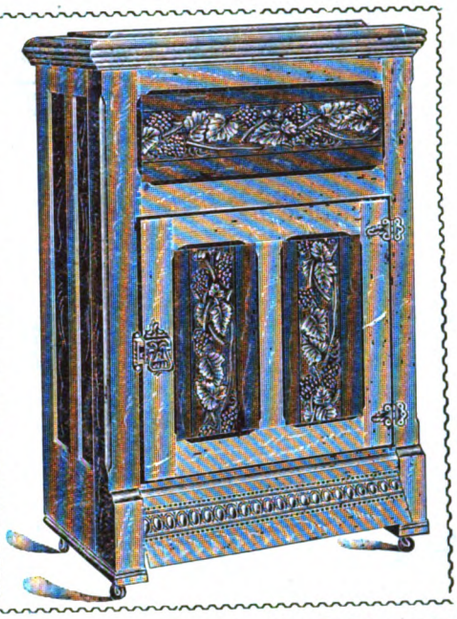


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Monarch Refrigerator Works,

BURLINGTON, VT.

To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted] and TWENTY-FIVE CARBON Steel will last only so long [redacted]

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

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The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

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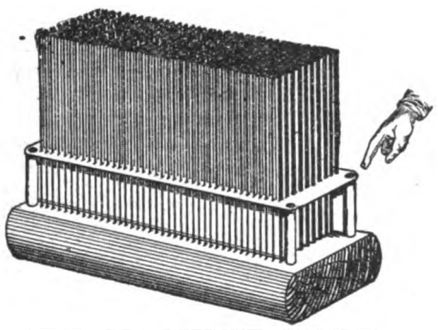
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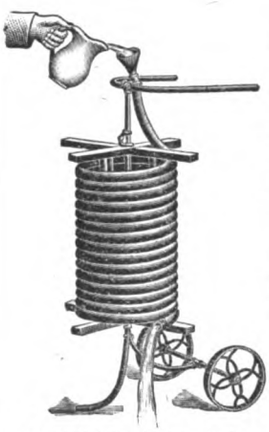
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It is a beautiful ornament for a lawn. It is convenient, light, strong. It will please your customers as it saves money. For prices and Sample Reels, address

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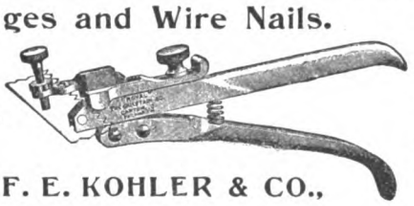
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SPECIAL SIZE FOR CROSS CUT SAWS.



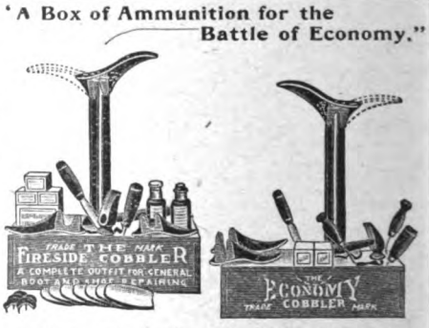
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If the advice I give is heeded.
Buy a ROYAL, then be seated on a stool,
In one hand hold the saw, with the other work the tool.

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These two Outfits, the "Fireside" and "Economy" Cobbler are GREAT and POPULAR sellers,—just the thing for the times. Send for list and prices of our FULL LINE OF COBBLERS' SETS, "Buckeye" Iron Lasts and Stands and "Plymouth Rock" Halfsoles.

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Boston & Lockport Block Co., Boston and Lockport, N. Y.
John H. Graham & Co, New York.
F. E. Myers & Bro., Ashland, Ohio.

Bicycles and Bicycle Sundries.
Aluminum Sign & Novelty Co., Columbus, Ohio
Bristol Bell Co, Bristol, Conn.
Brown-Lewis Cycle Co., Chicago.
Canton Cycle Mfg. Co., Canton, O.
Cushman & Denison, New York.
John H. Graham & Co. New York.
N. N. Hill Brass Co., East Hampton, Conn.
Lane Bros., Poughkeepsie, N. Y.
Miller & Van Winkle, Brooklyn, N. Y.
New Departure Bell Co., Bristol, Conn.
New York Belting & Packing Co., Ltd., New York.
Ohio Electric Works, Cleveland, Ohio.
Joseph Osterman & Co., Manayunk, Pa
Plume & Atwood Mfg. Co., New York.
Pope Mfg. Co., Boston.
Pope Tube Co., Hartford, Ct.
Remington Arms Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Chas J Stebbins, New York.
Trenton Watch Co., Trenton, N. J.
Union Heater Supply Co., Detroit, Mich.

Bicycle Step Ladders.
Bicycle Step Ladder Co. Chicago.

Blind Hinges.
Stanley Works, New Britain, Ct.

Bits.
Bridgeport Gun Implement Co., Bridgeport. Conn.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.

Blacksmith's Outfits.
Holroyd & Co., Waterford, N. Y.

Blocks, Tackle.
See Tackle Blocks.

Bolts.
Brass Goods Mfg Co, Brooklyn, N. Y.
Bruce & Cook, New York.
Isaac Church, Toledo, Ohio.
Union Nut & Bolt Co., New York.

Bone Black.
Geo. F. Taylor's Sons, New York.

Box Straps.
Quincy Hdwe. Mfg. Co., Quincy, Ill.

Brackets.
Atlas Mfg. Co., New Haven, Conn.

Brass & Composition Castings.
C. H. Angus, Albany, N. Y.

Brass, Manufacturers.
Waterbury Brass Co., New York

Brass, Perforated.
Harrington & King Perforating Co., Chicago.

Brass Signs.
Schwerdtle & Siebert, Bridgeport, Conn.

Brazing Machines.
Union Heater Supply Co., Detroit, Mich.

Brushes.
Buchel Brush Novelty Co., New Orleans, La.

Buffing Wheels.
Divine Bros., Utica, N. Y.

Buggy Canopies.
Sprague Umbrella Co., Norwalk, Ohio.

Builders' Hardware.
Norwalk Lock Co., South Norwalk, Conn.
Russell & Erwin Mfg. Co., New York.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.

Bungs.
John Sommer's Sons, Newark, N.J.

Butcher Knives, Tools and Steels.
John Chatillon & Sons, New York.
Northampton Cutlery Co., Northampton, Mass.

Butts.
Bommer Bros., Brooklyn, N. Y.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.

Butts, Spring.
Bommer Bros., Brooklyn, N. Y.

Calipers.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.

Car Sealers.
Charles Morrill, New York

Carpet Sweepers.
Bissell Carpet Sweeper Co., Grand Rapids, Mich.; New York.

Carriage Wood Work.
Geo. S. Parkes & Co., Nashville, Tenn.

Carving Tools.
Hammacher, Schlemmer & Co., New York.

Carriers.
F. E. Myers & Bro., Ashland, Ohio.

Casters.
Allerton, Clarke Co., New York.

Castings.
Aluminum Sign & Novelty Co., Columbus, Ohio.
C. H. Angus, Albany, N. Y.

Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Ceiling Plates.
Ferrosteel Co., Cleveland, Ohio.

Cellar Grates.
Hess, Snyder & Co., Massillon, O.

Cement.
New York Belting & Packing Co., Ltd., New York.

Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Checks.
Schwerdtle & Siebert, Bridgeport, Conn.

Cherry Stoners.
Enterprise Mfg. Co., Philadelphia.
Goodell Co., Antrim, N. H.

Chimney Ventilators.
Hess, Snyder & Co., Massillon, O.

Chucks.
Detroit Twist Drill Co., Detroit, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Claspe.
Th. M. Hass, New York.

Clay Screens.
Harrington & King Perforating Co., Chicago.

Cleavers.
John Chatillon & Sons, New York.

Clippers, Horse and Barbers'.
American Shearer Mfg. Co., Nashua, N. H.
Coates Clipper Manufacturing Co. Worcester, Mass.
Alfred Field & Co., New York.
Gillette Clipping Machine Co., New York.
John H. Graham & Co., New York.

Clock Springs.
Wallace Barnes, Bristol, Conn.

Closet Pulls.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Clothes Racks.
Fernald Mfg. Co, North East, Pa.

Coal Screens.
Edward Darby & Sons, Phila., Pa.
Gilbert & Bennett Mfg. Co., New York and Chicago.
Harrington & King Perforating Co., Chicago.

Coat, Hat and Ceiling Hooks.
Atlas Mfg. Co., New Haven, Conn.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Copper.
Bruce & Cook, New York.

Copper, Perforated.
Harrington & King Perforating Co., Chicago.

Cordage and Twines.
Samson Cordage Works, Boston.

Cork Pullers.
Enterprise Mfg. Co., Philadelphia.

Corkscrews.
Erie Specialty Co., Erie, Pa.
Alfred Field & Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Counterfeit Detectors.
Pelouze Scale & Mfg. Co., Chicago.

Crayon.
Jos. Dixon Crucible Co., Jersey City, N. J.

Cresting.
E. T. Barnum, Detroit, Mich.

Curled Hair.
Baeder, Adamson & Co., N. Y., Phila., Boston and Chicago.

Curry Combs.
John H Graham & Co., New York.
F E. Kohler & Co., Canton, Ohio.
New York Stamping Co., Brooklyn, N. Y.

Cutlery.
John Chatillon & Sons, New York.
Alfred Field & Co., New York.
Goodell Co, Antrim, N. H.
Hammacher, Schlemmer & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Northampton Cutlery Co., Northampton, Mass.
Patterson, Harral & Gray, N. Y.
Jos. Rodgers & Sons, Sheffield, England.
Seymour Cutlery Co., Holyoke, Mass.
Tuck Mfg Co., Brockton, Mass.
J. Wiss & Sons, Newark, N. J.

Cutters, Fodder.
W. R. Harrison & Co., Massillon, O.
Silver Mfg. Co., Salem, Ohio.

Dampers.
Arcade Mfg. Co., Freeport, Ill.
Troy Nickel Works, Albany, N. Y

Dies.
Th. M. Hass, New York.
F. E Myers & Bro., Ashland, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
Vieillard & Osswald, Brooklyn, N. Y.

Dog Collars and Muzzles.
Alfred Field & Co., New York.
Tower & Lyon, New York.
Union Hardware Co., Torrington, Conn.

Door Checks and Springs.
John Chatillon & Sons, New York.
Norton Door Check & Spring Co. Boston, Mass.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York.

Doors and Shutters, Iron.
Stewart Iron Works, Cin'nati, O.

Drills.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Kearney & Foot Co, New York.
Silver Mfg. Co., Salem, Ohio.
Standard Tool Co., Cleveland, O.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Drills, Blacksmiths', Etc.
Silver Mfg. Co., Salem, Ohio.

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Dumb Waiters.
Energy Mfg. Co., Philadelphia
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.

ynamos.
W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.
W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Peru Electric Mfg. Co, Peru, Ind.

Elevators.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.

Elevator Screens and Guards.
Harrington & King Perforating Co., Chicago.

Emery.
Crescent Emery Mills Co., Oscawana, N. Y.
Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.
Crescent Emery Mills Co., Oscawana, N. Y.
New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.
J. L. Prescott Co., New York.

Enameling Ovens.
Union Heater Supply Co., Detroit, Mich.

Enamel Ware.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Envelope and Stamp Lubricators
Pelouse Scale & Mfg. Co., Chicago.

Expansion Bolts.
Isaac Church, Toledo, O.

Export Agents.
John H. Graham & Co. New York

Exposition.
Sportsmen's Exposition & Bicycle Show, New York.

Eyelets.
Waterbury Brass Co., New York.

Faucets.
Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Fibre Ware.
Standard Fiber-Ware Co., Mankato, Minn.

Files.
Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.

Filteration Quartz.
New England Filteration Co., Boston.

Filters.
J. H. Seed, New York.

Fire Escapes.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Flat Ware.
See Plated Ware.

Flower Pot Stands.
E. T. Barnum, Detroit, Mich.

Fluting Machines.
North Bros. Mfg. Co., Philadelphia.

Fodder Cutters.
Silver Mfg. Co., Salem, O.

Foundry Riddles.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.
Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.
Stewart Iron Works, Cin'nati, O.

Fruit Pickers.
Edward Darby & Sons, Philadelphia.

Fruit Presses.
Enterprise Mfg. Co., Phi'adelphia.
Logan & Strobridge Iron Co., New Brighton, Pa.

Furnaces.
Hess, Synder & Co., Massillon, O.
Richardson & Boynton Co., New York, Chicago, Boston.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.
New Jersey Car Spring & Rubber Co, Jersey City, N. J.

Garden Tools.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.
H. O. Canfield, Bridgeport, Conn.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.
Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.
Burr & Houston Co., Brooklyn. N. Y.

Gauge, Butt.
Stanley Rule & Level Co., New Britain, Conn.

Gears.
T. F. Welch & Co., Boston.

Generators.
W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.
H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.
Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.
Jos. Dixon Crucible Co., Jersey City, N. J.

Grating, Iron.
Stewart Iron Works, Cin'nati, O.

Grinding Mills.
A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.
Cleveland Stone Co., Cleveland.

Gummers.
E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.
E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.

Gun Implements.
Bridgeport Gun Implement Co., New York.
Hartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Hammers.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
The Scranton & Co, New Haven, Conn.
Troy Nickel Works, Albany, N.Y.

Handles
Berger Bros., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio
Geo. S. Parkes & Co., Nashville, Tenn.
Russell & Erwin Mfg. Co., New York.

Hangers.
Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.
Cronk Hanger Co., Elmira, N Y

Hangers, Door.
Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N.Y.
McCabe Mfg. Co., New York.
McKinney Mfg. Co, Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.
Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.
Arcade Mfg. Co., Freeport, Ill.
Berger Bros., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles, Plainville, Conn.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
"Foreign," New York.
Griswold Mfg Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
North Bros. Mfg. Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Grey, N. Y.
Pelouse Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Charles Weiland, New York.
T. F. Welch & Co., Boston.

Harness Snaps.
Covert Mfg. Co., West Troy, N. Y.
Ira F. White & Son, New York.

Hasps.
McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.
F. E. Myers & Bro., Ashland, O.

Hay Forks.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.
E. T. Barnum, Detroit, Mich.

Heaters
C. R. Meres Heater Mfg. Co. Norwalk, O.
Edward Miller & Co., Meriden, Conn.

Hinges.
Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hitching Posts.
Ohio Metal Co., Norwalk, Ohio.

Hones, Razor.
Alfred Field & Co., New York.
Pike Mfg. Co., Pike Station, N. H.

Hoisting Machinery.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.

Horse Nails.
Ausable Horse Nail Co, New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.
F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.
Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus
Bramhall Deane Co, New York.

Ice Tools.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.

Ice Cream Freezers.
John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.
Mutual Life Insurance Co. New York.

Iron.
Bruce & Cook, New York.

Iron Castings.
C. H. Angus, Albany, N. Y.

Iron, Perforated.
Harrington & King Perforating Co., Chicago.

Jail Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.
C. H. Angus, Albany, N. Y.

Kitchen Sinks.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.
National Saw Co., Newark, N. J.

Ladders.
Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.
Plume & Atwood Mfg. Co., New York.

Lanterns.
Buhl Stamping Co., Detroit, Mich.

Lathes.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.
George Hayes, New York.

Lawn Fountains.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.
Enterprise Mfg. Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lead.
Bruce & Cook, New York.

Lead Pencils.
Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.
Berger Bro., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.
Tower & Lyon, New York.

Locks and Knobs.
Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.
A. Adamson, Akron, Ohio.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.

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Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Vieillard & Osswald, Brooklyn, N. Y.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.
C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Mail Boxes.
W. C. Heller & Co., Montclair, N. J.

Mallets.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.
Fulton Stamp Works, New York.

Masons' Lines.
Samson Cordage Works, Boston.

Meat Choppers.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.
New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.
C. H. Angus, Albany, N. Y.

Metals, Perforated.
Harrington & King Perforating Co., Chicago.

Metallic Paint.
Bruce & Cook, New York.

Metal Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Milk Cans.
Buhl Stamping Co., Detroit, Mich.

Mincing Knives.
Enterprise Mfg. Co., Philadelphia.

Mining Screens.
Harrington & King Perforating Co., Chicago.

Mirrors, Window.
Bayer & Co., Philadelphia.

Model Making.
Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mops.
Matchless Mop Wringer Co., Canton, Ohio.

Mop Wringers.
Matchless Mop Wringer Co., Canton, Ohio.

Motors.
W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.
A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York,
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co, Bridgeport, Conn.

Oil Stones.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.
Edward Miller & Co., Meriden, Conn.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Photo-Engraving.
Otto Neuburg, New York.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Poles.
Geo. S. Parkes & Co., Nashville, Tenn.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
Queen Sash Balance Co., New York.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Bramhall Deane Co, New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

Rat and Mouse Traps.
See Traps.

Refrigerators.
Baldwin Refrigerator Co., Burlington, Vt.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia

Reels.
Hartsell Novelty Works, Alliance, Ohio.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Beeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

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E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co, New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

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E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
Underhill, Clinch & Co, New York.

Scrapers, Wheel.
Sidney Steel Scraper Co., Sidney, O.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York.
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.
Geo. S. Parkes & Co., Nashville, Tenn.

Shears and Scissors.
Alfred Field & Co., New York.
H. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

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Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York

Spark Guards.
Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spokes.
Geo. S. Parkes & Co., Nashville, Tenn.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
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Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

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Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Stencils.
Schwerdtle & Siebert, Bridgeport, Conn.

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Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Richardson & Boynton Co., New York, Chicago, Boston.

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Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J
J. L. Prescott & Co., New York.

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Troy Nickel Works, Troy, N. Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

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See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co.' Cleveland, O.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

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Stewart Iron Works, Cin'nati, O.

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Union Hardware Co., Torrington Conn

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Knapp & Pratt Mfg. Co., Geneva, Ohio.

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Union Heater Supply Co, Detroit, Mich.

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Alfred Field & Co., New York.
Waterbury Brass Co., New York.

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Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

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Bruce & Cook, New York.

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Harrington & King Perforating Co., Chicago.

Tin-Plate.
Bruce & Cook, New York.

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New York Belting & Packing Co., New York.

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Detroit Twist Drill Co., Detroit, Mich.
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Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
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Kendrick Valve & Washer Co., Syracuse, N. Y.
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New York Belting & Packing Co., Ltd., New York.

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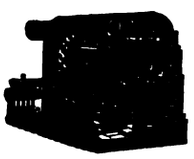
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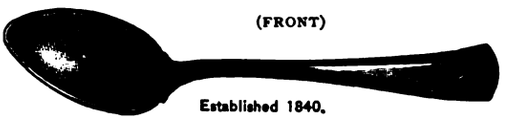
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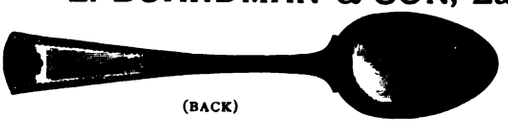
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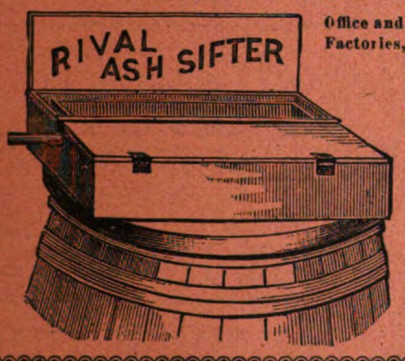
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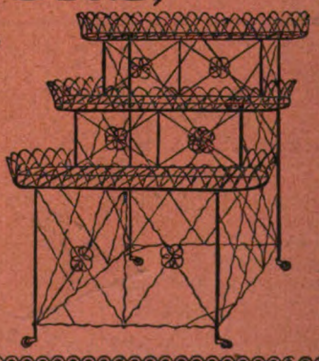
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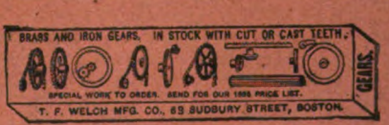
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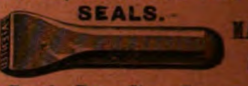
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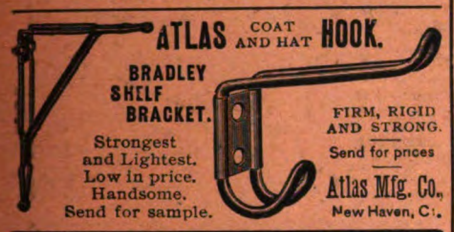
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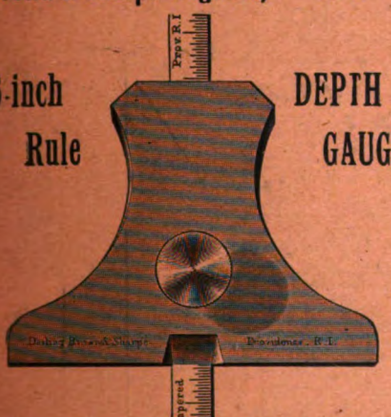
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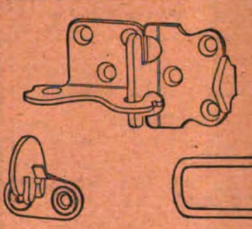


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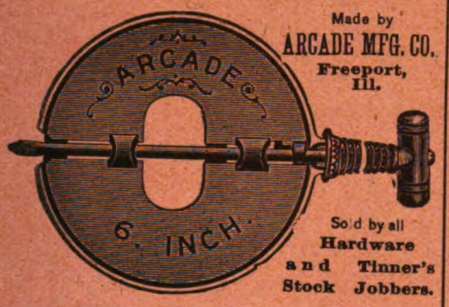
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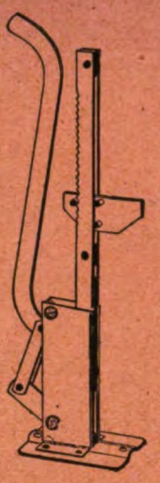
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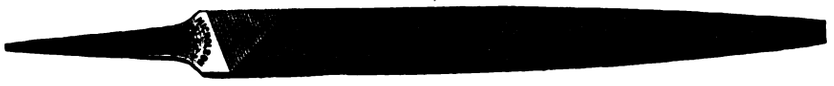
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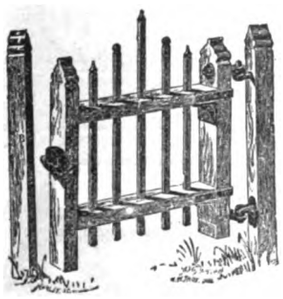
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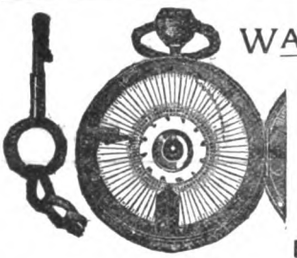


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This Clock is neat, thoroughly reliable and very durable. **Cannot be tampered with.** Price moderate. Is adapted for six or twelve stations, having a different key for each. Registering is done by number from 1 to 6 and 1 to 12, each station having its number. No chance for a fraudulent record here. Old style detectors mark by holes or an impression on dial, the same for all stations. Allowance made for old Detectors. Send for circulars, prices and further particulars.

NANZ & CO., 116 CHAMBERS STREET, NEW YORK.



The Latest and Best Hanger on the Market.

Write for Prices.

STOWELL MFG. & FDRY. CO.,

SUCCESSORS TO

Moore Mfg. & Fdry. Co.,

South Milwaukee, Wis.

TAKE THIS ELEVATOR, PLEASE.

You can make money by using our goods. They are up-to-date. Carefully built. We have over 3000 in use.

WARNER ELEVATOR MFG. CO.,

Write for Information Book No. 30. CINCINNATI, OHIO.

WATERBURY BRASS CO.,

60 Centre St., New York.

. . Manufacturers of . .

Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS

OF ALL KINDS.

Hicks Primers, Berden Primers, Powder Flasks and Shot Pouches.

TAPE MEASURES,

EYELETS AND SMALL BRASS WARES

OF EVERY DESCRIPTION.

TRUCKS OF ALL KINDS.

A. ADAMSON

MACHINIST.

Corner Exchange and Water Streets, AKRON, OHIO.

General Machine Work, Molds for Bicycle Tires, Air Goods, Druggists' Sundries, Matrices for Hard Rubber Goods, Die Sinking, Hydraulic Presses, Special Machinery, etc. Estimates cheerfully given. Correspondence solicited. Work promptly done.

Rubber Machinery

Just what we have wanted.

A STRONG MORTAR, ASH, SAND and COAL Barrow

AT A LOW PRICE. Ship us Six Dozen.

COPY OF AN ORDER JUST RECEIVED.

Bryan Manufacturing Co.,

Bryan, Ohio, U. S. A.



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Disston's Superior Files.

The Steel used in these Files is manufactured by our own steel works. They are cut by skilled mechanics on our own improved machinery, hardened by a special process which insures an even temper.

Each File is carefully inspected before leaving the factory.

We Guarantee the quality of our Files to be equal to that of our Saws. . . . . .

IF YOU CANNOT BE SUPPLIED WRITE US.

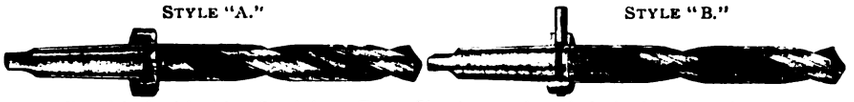
Highest Award given our Files wherever exhibited

Henry Disston & Sons, Incorporated,

Philadelphia, Pa.

THE "DIAMOND" 'W. & B." UNIVERSAL SELF-OILING DRILLS.

STYLE "A." STYLE "B."



Furnished with either Straight or Taper Shanks, any length desired. Three Styles.
Send for Descriptive Matter and Special Discounts. MANUFACTURED ONLY BY
THE WHITMAN & BARNES MANUFACTURING CO.,
NEW YORK, N. Y. CINCINNATI, OHIO. CHICAGO, ILL. KANSAS CITY, MO.

HARDWARE DEALERS

BUY

Lead Pencils, Carpenters' Pencils,
Lumbermens' Crayons, Stove Polish,
Graphite Paint, Lubricating Graphite,
Belt Dressing, Crucibles

And other graphite products of

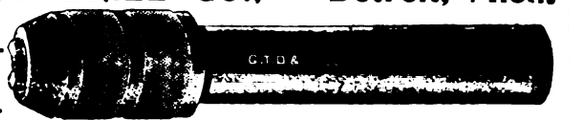
JOS. DIXON CRUCIBLE CO.,

Jersey City, N. J.,

Who are the largest and oldest importers, miners and manufacturers of Graphite, Plumbago and Blacklead in the world.

DETROIT TWIST DRILL CO., Detroit, Mich.

Sole Manufacturers of
Graham Grooved Shank System of Chucks and Drills.
. . . SEND FOR CATALOGUE.



THE FINISHED STEEL CO

YOUNGSTOWN, OHIO

MFR'S OF **POLISHED SHAFTING**

HIT THE PIPE



as hard as you like with chisel or mallet and observe that the surface finished with simply one coat of our

ELASTIC IRON ENAMEL

is scarcely marred. It also withstands a high degree of heat; in truth it is as nearly indestructible as it is possible to make a varnish. For smoke-stacks, fire-place casings and stove-pipes

ELASTIC IRON ENAMEL has no equal.

The accompanying cut represents a miniature stove-pipe finished with one coat of

ELASTIC IRON ENAMEL.

We send these display pipes with dealers orders for this specialty. Pints, half pints and quarts are its most salable packages.

Chas. H. Gillespie & Sons,

VARNISH MAKERS,

125 to 137 Dey St., JERSEY CITY, N. J.



ECONOMIZE.

SHELF BOXES { MADE TO ORDER. ESTIMATES FURNISHED.

HENRY H. SHEIP & CO.,

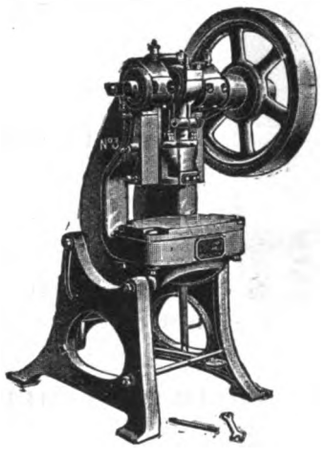
Columbia Ave. and Randolph St.,

PHILADELPHIA.

"Replies From All Sections."

McIntosh-Huntington Co., Cleveland, Ohio. [*General Hardware and Bicycles*]: As an advertising medium, we have recently had occasion to test HARDWARE in a manner that would give us some idea as to how successful it can be used. Our advertisement did not occupy a very prominent position, but was of a character to excite the cupidity of the reader. We found that within two days after your paper came out, we commenced to receive replies from all sections of the country to the advertisement. This would seem to be sufficient proof that yours is a good medium.

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VIEILLARD & OSSWALD,

Manufacturers of

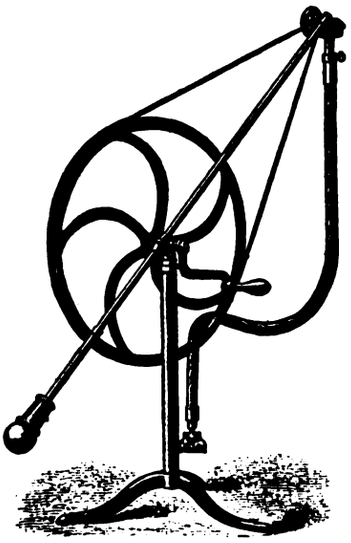
PRESSES AND DIES AND SPECIAL MACHINERY

FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

708-710 Jamaica Avenue, BROOKLYN, N. Y., U. S. A.

WRITE FOR PRICES.



OVER 2000 MACHINES SOLD IN SIX MONTHS.

1000 Machines and 10,000 Cutters in Stock.

Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . . . . .

ADVANCE ORDER FOR

3000 IN EUROPE ALONE.

. . CATALOGUE SENT FREE TO ALL . .

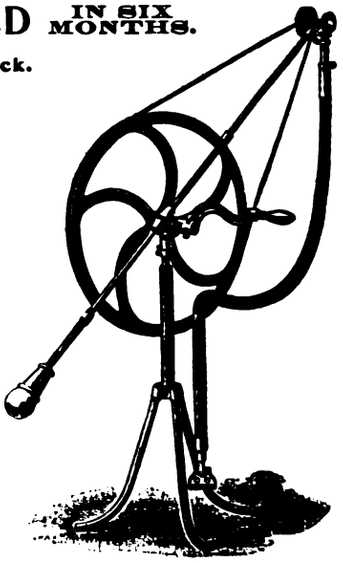
SHOWING OUR DIFFERENT STYLES OF

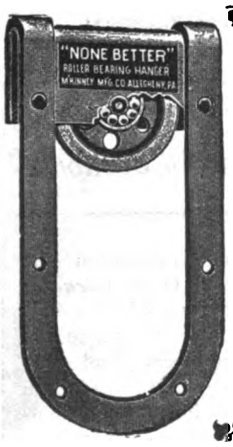
Steam, Electric, Foot & Hand Power

HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,

110, 112 & 114 West 32nd St., New York.





STEEL DOOR HANGERS.

WRITE FOR PRICES ON

No. 1 Special and No. 2 Standard.

THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

McKINNEY MFG. CO., - Allegheny, Pa.

NICKEL PLATING

LACQUERS,
CYANIDE POTASH,
NICKEL SALTS.

ESTAB. 1820. INCOR. 1891.
THE HANSON & VAN WINKLE Co.
OFFICE AND WORKS
NEWARK, N.J., U.S.A.
NEW YORK. CHICAGO.

TRIPOLI,
ROUGE,
BUFFS, & C.

OUTFITS

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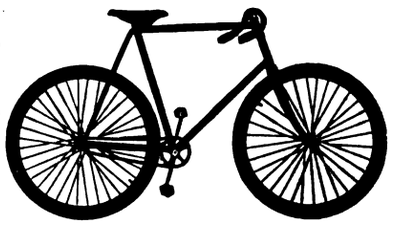
THE "SPARK" '97 MODEL

List, $60.

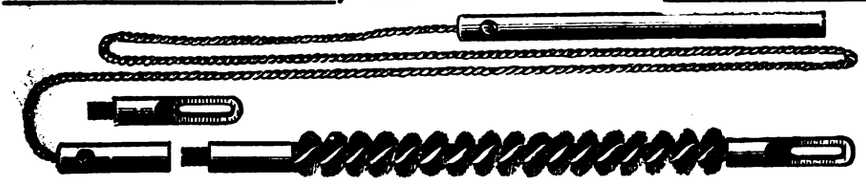
ONE WHEEL. Best Grade. ONE PRICE.

If you're IN LINE for a deal we promise to interest you. Address ——

CANTON CYCLE MFG. CO.,
Canton, Ohio.



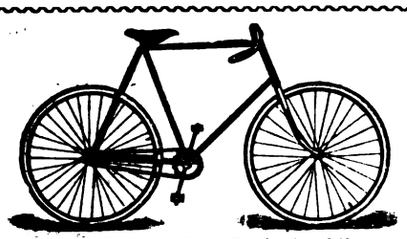
SPARE THE ROD, YOU NEED NOT SPOIL **THE RIFLE**



IF YOU CARRY THE U. S. GOVERNMENT CLEANER INTO THE FIELD.

Adopted by the U. S. Navy on account of its simplicity and effectiveness.

The Bridgeport Gun Implement Co., Bridgeport, Conn. 313-315 Broadway, New York City.



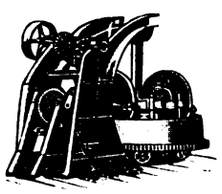
$18.00

Grand Clearing Sale '97 Stock.

A handsome, WELL MADE bicycle, '97 model, 1⅛ and 1¼ inch tubing, drop forged connections, tool steel bearings, good tires, standard Garford saddle, rat-trap or rubber pedals. Every machine GUARANTEED PERFECT. Just the thing to catch the late fall trade. Samples shipped C. O. D., subject to full examination, on receipt of guarantee of express one way. TIME IS MONEY. THEY ARE GOING FAST. Don't wait for lists. Order a sample at once. You can't lose anything. Special prices on machines without tires, saddles and pedals.

Say:—"I saw it in HARDWARE"

The BROWN-LEWIS CYCLE CO., Chicago.



Combination mill to grind clay.

SPECIAL MACHINERY

WIRE drawing, CLAY working,
RUBBER washing, CHAIN WINDING,
CUTTING and WELDING machines,
POWER TRANSMISSION, Pulleys, Shafting, Gearing Boxes, Collars, etc., etc.

TURNER, VAUGHN & TAYLOR CO.,
CUYAHOGA FALLS, OHIO, U. S. A.

UNDERHILL, CLINCH & CO.,

94 Chambers Street, New York.

Do not buy until you have seen our

STEEL SNOW SHOVELS



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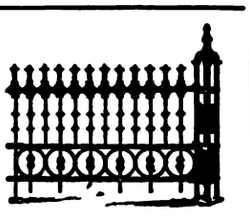
OLIVER AMES & SONS CORPORATION.

Send for our Shovel Catalogue showing goods carried in stock and new prices.

WE WANT AGENTS TO SELL OUR **IRON FENCE**

We furnish first-class work at prices that bring the trade. Write for Catalogues, Prices and Terms

The Stewart Iron Works,
CINCINNATI, O.
Manufrs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





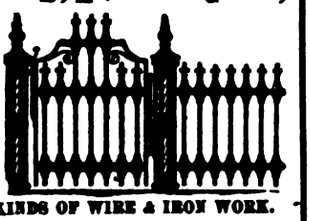
FLOWER-POT STANDS

OF ALL KINDS.

SEND FOR CATALOGUE.

Iron Fencing, Entrance Gates,

FIRE ESCAPES, JAIL CELLS, ROOF CRESTING, BANK and OFFICE RAILINGS, GRILLES,



AND ALL KINDS OF WIRE & IRON WORK.

E. T. BARNUM, DETROIT, MICH.

Agents Wanted Mention this paper.

OHIO AND SAMSON

ARE THE BEST

Mounted Grindstones

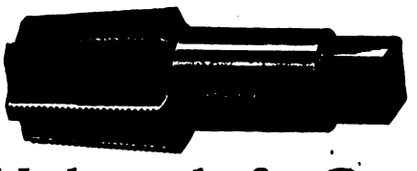
ON THE MARKET.

Send for Catalogue C 2 illustrating them, and other Mounted Grindstones, Scythe Stones, &c.

THE CLEVELAND STONE CO.,

Hickox Building. Cleveland, O.

Hardware Dealers Send us your address and we will mail Catalogue and discount sheet of STOCKS & DIES, TAPS, etc.



Holroyd & Co.,
Waterford, N. Y.

One of the First and Last Advertisers.

New Jersey Car Spring & Rubber Co., Jersey City, N. J. [*Rubber Goods*]: This company was one of the first to enter your list of advertisers, and we expect to be among the last to retire. We feel that HARDWARE is one of the publications we can't afford to stay out of.

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"EVERYTHING IS COMING UP."

BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

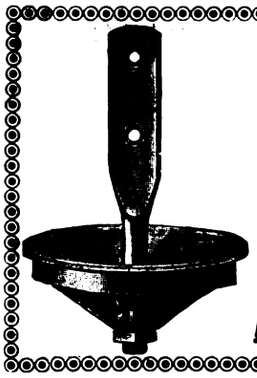
Sheep Skin Mitten.



Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

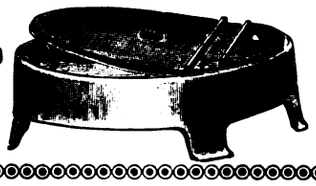
Diamond Hardware Co.,

624 Atlantic Ave., Boston, Mass.



Valves and Plungers.

Only the very best leather and rubber are used in these goods and all are carefully and evenly fitted, making them the best of their kind. . .



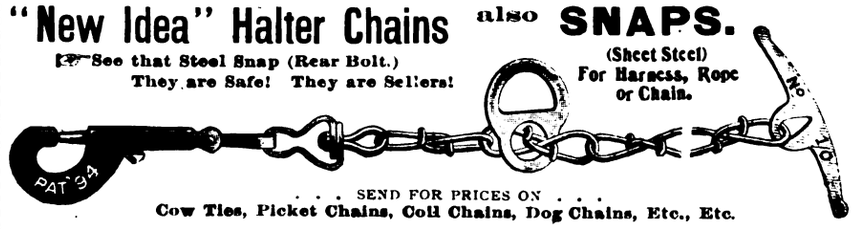
BERGER BROS.,

PHILADELPHIA, PA.

"New Idea" Halter Chains also SNAPS.

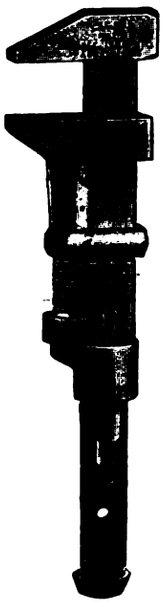
See that Steel Snap (Rear Bolt.)
They are Safe! They are Sellers!

(Sheet Steel)
For Harness, Rope or Chain.



. . . SEND FOR PRICES ON . . .
Cow Ties, Picket Chains, Coil Chains, Dog Chains, Etc., Etc.

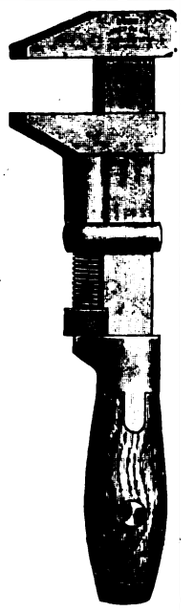
IRA F. WHITE & SON, 76-78 Park Place, New York.



L. COES'

Genuine Improved
KNIFE HANDLE
PATENT

Screw Wrenches.



MANUFACTURED BY

COES WRENCH CO.,

WORCESTER, MASS.

Established in 1839.
Registered April 9, 1895.

Patented Dec. 15, 1891.
Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

Straight Bar. Extra Long Nut for Screw in Jaw.

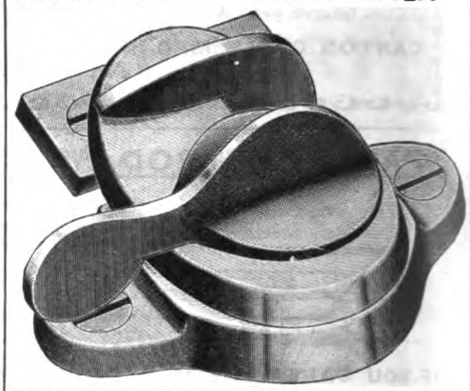
The BEST MADE and STRONGEST WRENCH in the MARKET.

J. C. McCARTY & CO.
JOHN H. GRAHAM & CO. } New York Agents.

New Stamped Metal Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

PATENTED AND PATENTS PENDING.

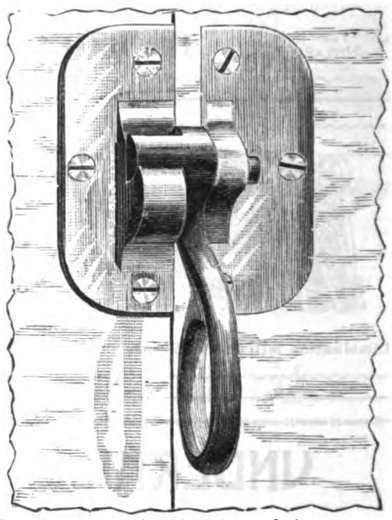
MANUFACTURED BY

HOBART B. IVES & CO.,

New Haven, Conn.

The CONROY PATENT Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

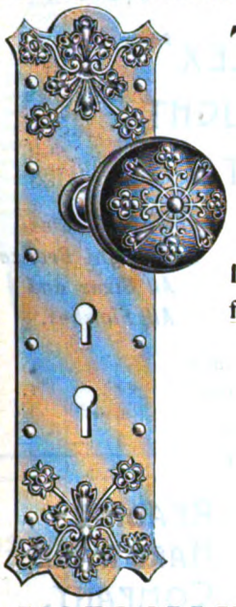
P. J. CONROY,

Beware of Infringements. Paschall, Phila.

"WE ARE RECEIVING GOOD RESULTS."

Clayton & Lambert Mfg. Co., Ypsilanti, Mich. [*Gasoline Fire Pots and Paint Burners.*] We are receiving good results from the advertisement which is running in your paper, and bel eve the service which you are g ing us, is extra good. We trust that our relationship for the coming year will be as pleasant and profitable as have those of the past, and feel very confident that it will.

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Trilby Design

(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,

Inside, and Sliding Door

Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

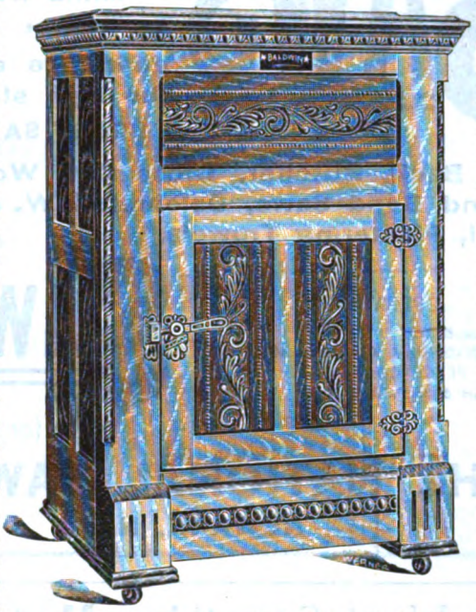
Manufacturers of **Builders' Hardware,**

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

NEW YORK, 80 Chambers St., or
94 Chambers St., (UNDERHILL, CLINCH & CO.)
BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
CHICAGO, 36 Dearborn St.
BALTIMORE, 32 Hopkins Place. (HENRY KEIDEL & CO.)
PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

BALDWIN REFRIGERATORS.



New.
Neat.
Natty.

The Line That Sells.

125 Styles.

Popular Goods.
Popular Prices.

20 Years in the business.
Send for Catalogue G.

BALDWIN REFRIGERATOR CO.,
BURLINGTON, VERMONT.

C. H. & E. S. GOLDBERG,

WHOLESALE DEALERS IN

GENERAL WOODENWARE.



Possessing ample facilities, in their new location covering a whole block, they are enabled to carry the largest stock of goods in this line known to the trade.

Illustrated Catalogue mailed on application.

WEST BROADWAY, READE & HUDSON STS.
NEW YORK.

BISSELL'S FOR Christmas.



The "Bissell" alone has "Cyco" Bearings.

WRITE FOR PARTICULARS.

BISSELL CARPET SWEEPER CO.,
Grand Rapids, Mich. 103 Chambers St., New York.

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SAWS

BUY ONLY THE BEST
at Prices to Beat the World.
MAKE NO MISTAKE.
40 years' reputation is guarantee enough as to the high standard of the BEST SAWS MADE.

Hand, Back, Butcher, Cross Cut, Wood, Circular, Mill and Band Saws, Celebrated W. & McP., Cincinnati, Plastering Trowels.

OPERATING
RICHARDSON BROS.
WHEELER MADDEN & CLEMSON MFG. CO.
HARVEY W. PEACE CO.
WOODROUGH & McPARLIN.

SAWS

Write for Lists and Prices.

THE NATIONAL SAW CO.
NEWARK, N. J.

"DUPLEX" WROUGHT BUTTS

Wrought Steel
Wrought Bronze
All Sizes and
All Finishes.

These Butts are better than the ordinary kinds. Made only by

READING HARDWARE COMPANY,
New York, Phila., Chicago.
Factories, READING, PA.

Do You Want Something Made?

My Specialty is to Manufacture for Other Parties.

Reasonable arrangements can be made. WRITE ME TO-DAY.

C. H. Angus, . Albany, N. Y.

Mfr. of Castings; Nickel and Brass Plating, Metal Pattern Maker, etc.



STOVE LID LIFTERS
30 KINDS.
COPPERED, TINNED, NICKEL PLATED.
. . . WE MAKE TONS OF THEM. . . .
LOGAN & STROBRIDGE IRON CO., New Brighton, Pa.

J. K. WILLIAMS,
MACHINE SHOP.
210 CHERRY STREET,
AKRON, OHIO.

Special Machinery

Estimates made on all kinds of Special Machinery. Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates.

THEO. M. HASS,
MANUFACTURER OF
Fancy Brass Goods, Plain and Embossed Borders, Locks, Hinges, Catches, Clasps and Trimmings, for Albums, Books and Fancy Boxes.
Goods to Order a Specialty. Dies and Tools.
176 CENTRE STREET, (Opposite Earle's Hotel.) NEW YORK.

Akron Tubular Steel Wheelbarrows.

RE-INFORCED TRAYS.
SOLID FRAME.
NO HOLES DRILLED INTO IT.
ALL PARTS CLAMPED ON.
Perfect Forward Dump.
Strongest, Easiest Handled.
Lightest and Most Durable.

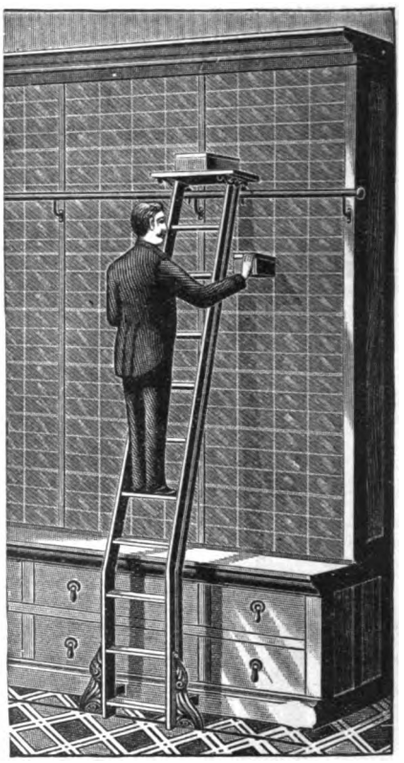
McNEIL'S PATENT BALANCED AUTOMATIC DUMP CHARGING BARROW.



The Akron Cultivator Co.,
MANUFACTURERS, Akron, Ohio.

The Bicycle Step Ladder

Especially adapted for Hardware Stores.



The newest, neatest, simplest, easiest operated, and safest store ladder made. Highest Award World's Fair. Write us.

The Bicycle Step Ladder Co.,
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The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.



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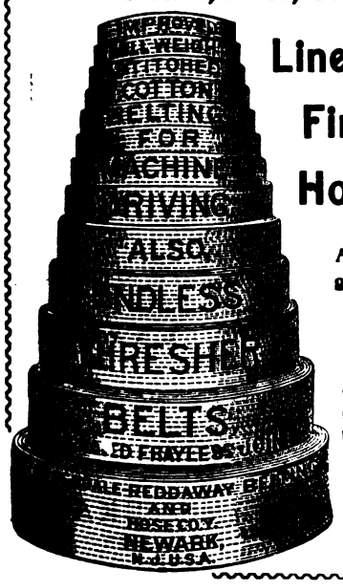
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All grades.

Made to meet requirements of Underwriters.

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THEY PREVENT

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Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
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WAGON UMBRELLAS and BUGGY CANOPIES.

Everything in that line.
Our motto: "Keep a-goin'."
Especial attention invited to

Sprague's Patent Giant Frame Wagon Umbrella.

It is the Strongest Umbrella on the globe.
Write to us, and let us prove it.

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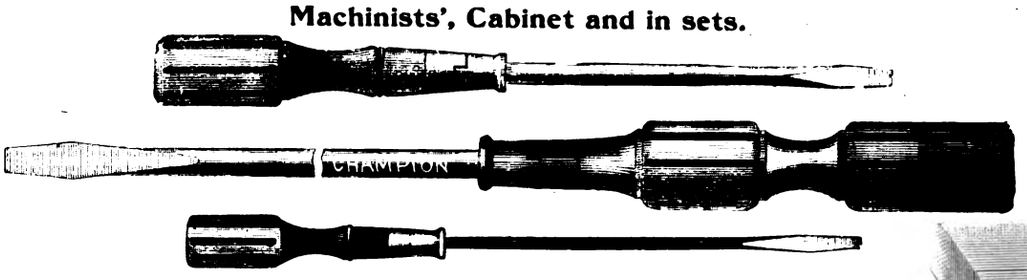
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CARPENTERS AND MACHINISTS' TOOLS.

TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



See that the word "CHAMPION" is on each Screw Driver.

STEPHENS' PAT. VISES.

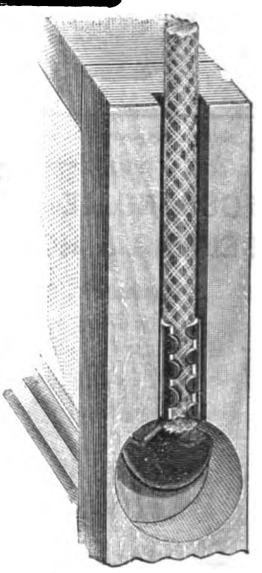


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PHILLIPS'

Sash Cord,
Sash Weight,
Sash Chain
and
Sash Ribbon
Fasteners.



Shows Fastener in use.

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95 CHAMBERS and 77 READE STS.,

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PADLOCKS, POLICE GOODS, ETC.

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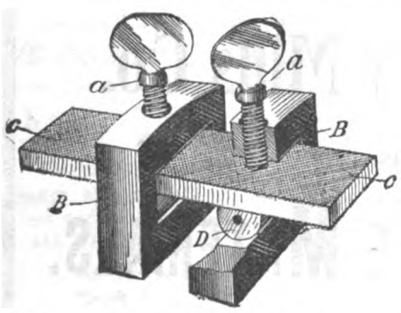


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CALLED THE
DONOGHUE RACING SKATE.

Made in three lengths, 14, 16, 18 inches.



The Union Skate Sharpener

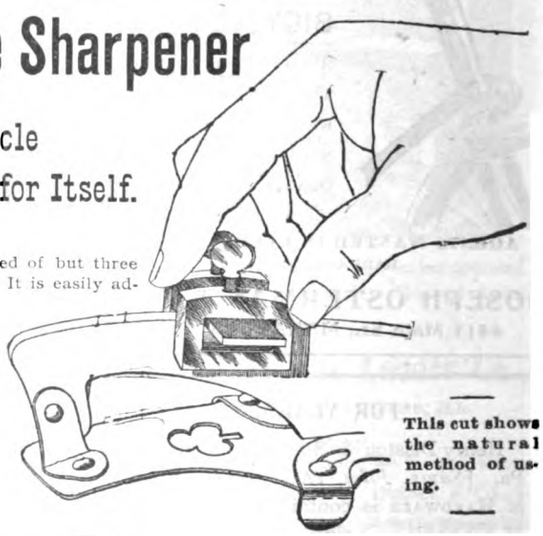


A New and Useful Article Which Speaks for Itself.

This device is simple, being composed of but three parts—two side pieces and a short file. It is easily adjusted at once. A child can operate it perfectly and do as good work as a machine shop.

It will adjust itself to any make or style of skate.

It always works and may be carried in the pocket.



This cut shows the natural method of using.

Sells on Sight. **Send for Price.**

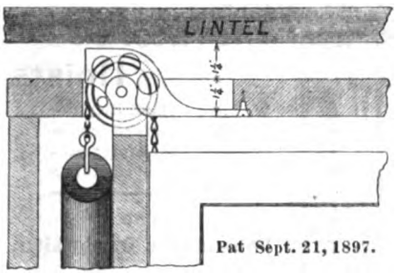
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UNION HARDWARE CO.,

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

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QUEEN SINGLE FRAME PULLEYS.



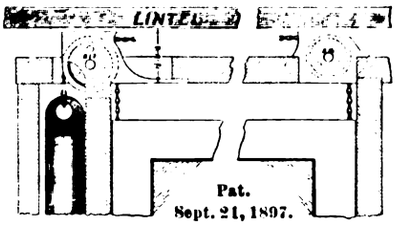
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No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

Architects will note accompanying cuts. They represent 2½ inch pulleys and only require 2½ inches head room from top of sash.

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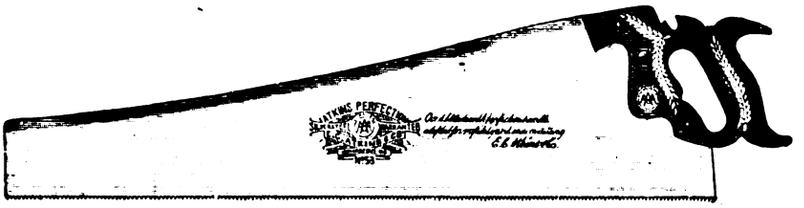
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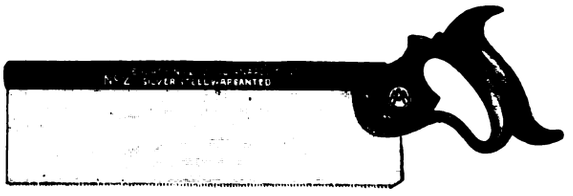
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WE MANUFACTURE EVERY KIND OF SAW USED.



SILVER STEEL.
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THE BEST SAWS MADE

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We have in stock and will make to order Seamless Heads, Hangers and Lugs, Cups, Cones, Crowns, Fork Ends, Brace Tips, etc., etc., etc.

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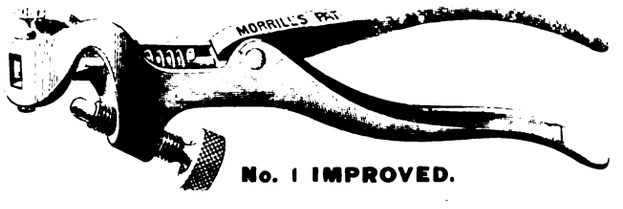
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TRADE ⊕M⊕ MARK

This Trade Mark is stamped on all Hardware Specialties of my make.



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This Trade Mark is stamped on all Hardware Specialties of my make.

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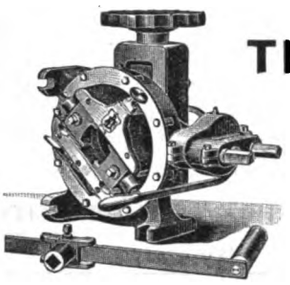
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THEY ARE ALL "STANDARDS" AND NEV DISAPPOINT. CATALOGUE!



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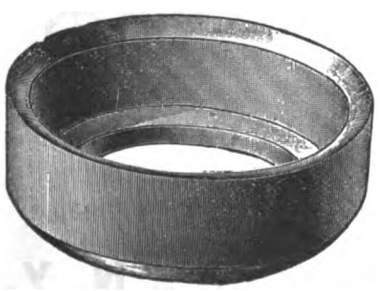


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Improved Quick and Easy Rising Steam, Electric and Hand Power

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"SATISFACTORY RESULTS ON INVESTMENT."

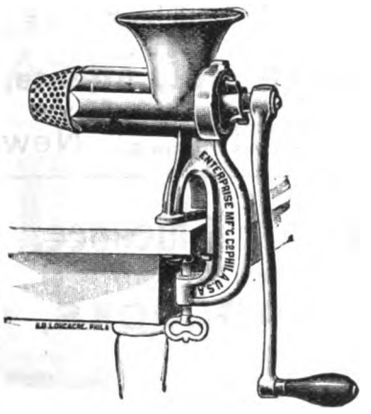
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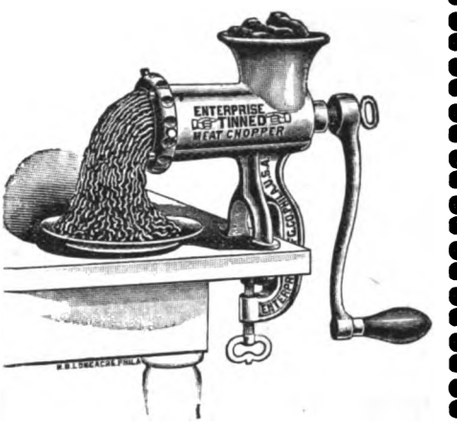
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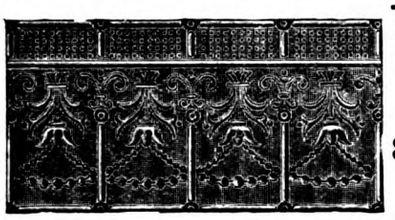


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The Canton Steel Roofing Co., Canton, Ohio.

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STAMPED CEILINGS,

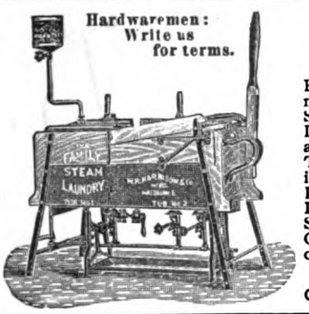
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"The Family Steam Laundry."



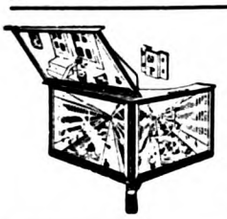
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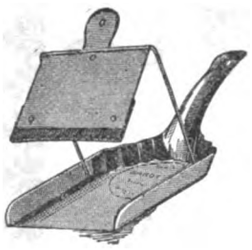
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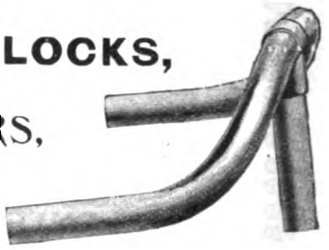
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Elbows
Embossed Sheet Iron
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Wire
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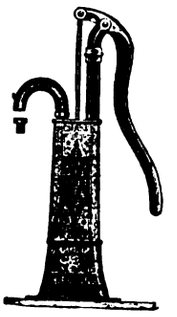
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"Kline's Strictly 5 and 10 cent Store."

ALL CENTRALLY LOCATED.

QUADRUPLE Your Spring Sales



In these lines by stocking up with **plain** and **decorated**

"STANDARD"

WATER PAILS, DAIRY PAILS, CHAMBER PAILS, CUSPIDORES, &c., for Office, Lobby, Hotel, Hall and Home.

WASH BASINS, SLOP JAR MATS.

Made of **strong fiber, wound,** and **steel bound,** they do not split open, nor chip off at edges, neither do their truss bottoms warp, loosen or leak.

All "Standard" goods are **waterproofed throughout,** and then **indurated** by **oxidation** until **absolutely unsoakable.**

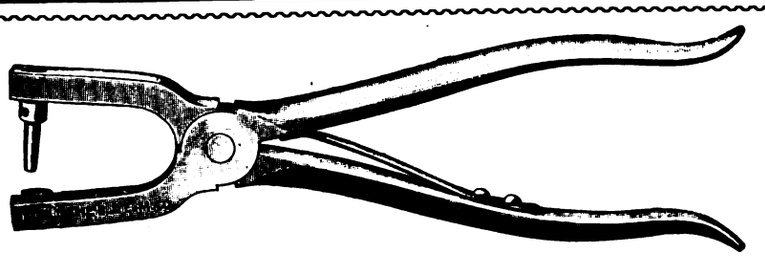
"Standard" is the only Fiber-Ware having **hand-painted decorations,** which, with its other merits, makes it outsell all similar ware.

Catalogue and price list, with full particulars, sent to dealers on application to the above company.

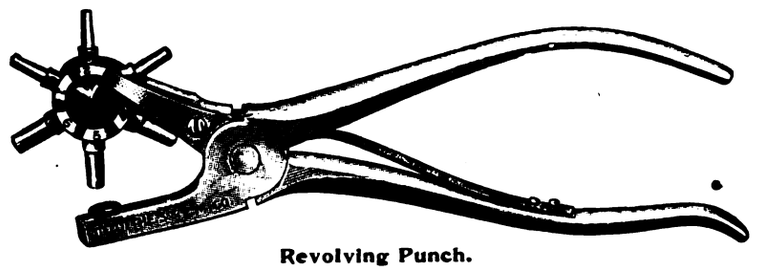
ON OUR AD. LIST AS ONE OF THE BEST.

Troy Nickel Works, Troy, N. Y. [Alaska Stove Hardware]: HARDWARE is on our advertising list as one of the best. We will be glad to keep you in this position.

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Spring Punch.



Revolving Punch.

IF YOU SELL THESE GOODS

You can get those of the best——

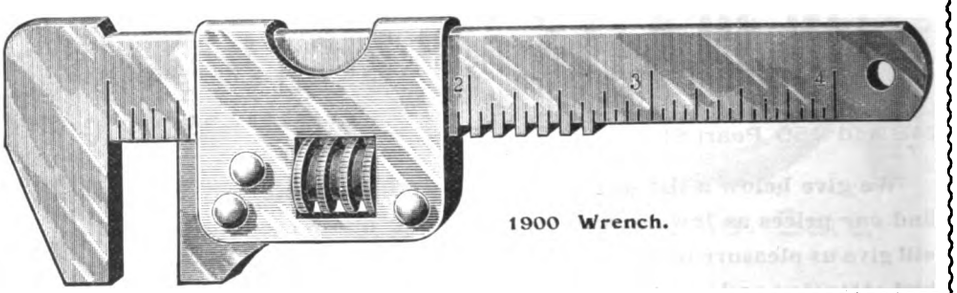
QUALITY and DURABILITY

At low prices from

THE SMITH & EGGE MFG. Co., BRIDGEPORT, CONN.

NEW YORK AGENT,
J. J. HALPIN,
62 Reade St.

PHILADELPHIA AGENT,
W. E. TRULL,
13 N. Sixth St.



1900 Wrench.

TRADE MARK.

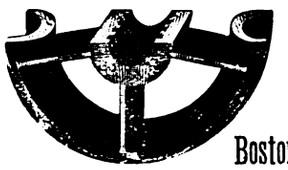


A. CHIPMAN, Treas.

GOULD'S STEAM & WATER PACKING

Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
THE GOULD PACKING CO.,
EAST CAMBRIDGE, MASS.

FORD'S PATENT SELF-LUBRICATING BUSHED SHEAVES



For every kind and size of commen bus' ed block Great saving in rope and friction, and corresponding great increase of power. The bushing is the life of the block. Ford's Patent increases the life about three-fold, and increases the cost of the blo k only about ten per cent. Write for further information, also for free catalogue J. In ordering specify STAR BRAND. Refuse substitutes said to be "just as good."

Boston & Lockport Block Co., SUCCESSORS TO Bagnall & Loud Block Co., Boston, Mass.

BIG PAY!

TAKE AN AGENCY FOR THE
Royal Polished Steel Roaster and Baking Pan.

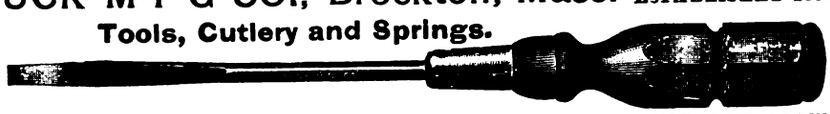


Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel,* in 7 sizes, including *inside* pans and *grate bars* in all sizes. *Bakes finest bread.*
For terms, address
THE ROYAL POLISHED STEEL ROASTER CO., Troy, O., U. S. A.

BEST MADE!

TUCK M'F'G CO., Brockton, Mass. ESTABLISHED 1852.

Tools, Cutlery and Springs.

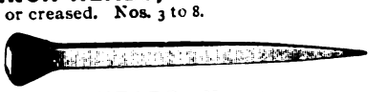


SCREWDRIVERS OF ALL KINDS - - SEND FOR CATALOGUE.

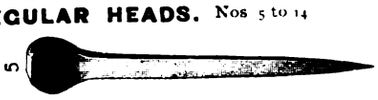
TURF NAILS, Nos. 1 to 5.



FRENCH HEADS, will fill any shoe punched or creased. Nos. 3 to 8.



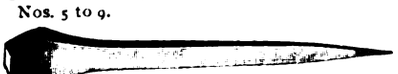
REGULAR HEADS. Nos 5 to 14



CITY HEADS, for shallow creased shoes, Nos. 5 to 9.



COUNTER HEADS or **FROST NAILS,** Nos. 5 to 9.



PUTNAM NAIL COMPANY

NEW DEPARTURE.

In consequence of the action of the National Hardware Association, we now propose to sell direct to the general jobbers of the country. . . . . .
All restrictions have been removed as to quotations to be made by the trade from ocean to ocean. . . .
The high quality of the Putnam Nail makes it an easier seller at an advanced price over nails made by rolling and shearing. . . . . .
In case local dealer does not handle our goods, address

The Putnam Nail Co., Neponset, Boston, Mass.

235 Lake St., Chicago, Ill.
12-14 Drum St., San Francisco, Cal.

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HARDWARE

VOL. XVI. DECEMBER 10, 1897. NO. 5.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 143 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING. CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

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JAMES H. KENNEDY, Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRANK REIFSNIDER, - Western Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

The season of the year is again at hand when the nervous anxiety caused by a careful inventory, becomes inseparable from the established facts there demonstrated, and the problem of how a more liberal allowance of profit on a year's hard work can be made by pursuing different methods, becomes a subject for animated discussion.

The year has undoubtedly been a disappointment to many business men throughout the country, who believed increased prosperity, arising from continuous effort and advancing prices, would be the prominent feature of the year's business; there are numerous cases where this was not the result accomplished. While on every hand the feeling is a pronounced one that the look ahead is still of a hopeful character, the volume of our exports largely in excess of all previous records, and the indications for good business by no means unpromising, still there is a feeling of uncertainty about present methods of distribution; the relative expenses of which, it is everywhere admitted, must be more economically adjusted, or it may result in changes and consolidations, combinations and new corporations, that will add to the perplexity of every business man affected by the discussion.

The agitation regarding the formation of a huge corporation to control the output of wire rods, wire nails and similar products, has stiffened up the prevailing quotations on the lines of goods naturally affected. Without expressing any expert opinion as to the advisability, from the dealer's standpoint, of the making of so many trusts in connection with the Hardware business, the general effect of the formation of the one now under consideration, has been to lessen the weakness in prices in those lines of manufacture that are in harmony with the wire-producing interests.

The wire nail mills have been booking the December product to an extent rarely noticeable in previous years, and with fair prospects for advanced quotations after January 1st, the orders for a later date than December 31st have at present no chance of being entertained.

Markets in other lines have received no special impetus, and at this late date in the season no great efforts are being made to encourage the purchase of heavy stocks of goods at the extremely low prices that have been current for some time.

The Wire Trust.

After several months of effort to accomplish the project, it looks as though the wire and wire rod manufacturers would succeed in establishing a combination that will consolidate their interests, and enable them from a central headquarters to control the output and the prices of wire rods and wire nails.

It is claimed that a combination of this character would limit, to a great and important extent, unprofitable competition, and that frequently unwise and dangerous surplus in the hands of makers who may be lacking in ordinary sagacity how to dispose of it without loss.

There are many in the Hardware trade who view with apprehension, born of previous experience less than two years old, this aggregation of manufacturing interests in a line of product so staple as wire and wire nails. There are at the present time so many articles in the Hardware business of which wire forms a prominent part, that the effect of a combined effort to materially advance prices would have an influence so far-reaching that it would be considered detrimental to the interests of jobber and retailer, who are to-day engaged in a hand-to-hand struggle for existence, having been able only to make both ends meet in a business sense, on the more encouraging quotations of the present.

While at the outset a combination, such as is now almost an accomplished fact, gives the assurance that they contemplate no material advance in prices, the dealers feel an announcement of this character is only made to secure their approval of a scheme which has for its object the creation of a power, the effect of which will inevitably be felt when once the markets are securely within its control. Conforming as they evidently intend to do, within the limits of existing laws respecting trusts, the so-called "combination" will be a new corporation, legally responsible, after having purchased the plants and business of the various mills embodied in the plan, whose only object in consenting to this loss of individuality and prestige would be the promise of greater profits, which advanced prices in the future could alone make certain.

It seems like a confession of weakness on the part of these prominent producers of Hardware necessities, that with a tariff formed on the lines of the greatest protection from foreign interference in our domestic markets, such combinations or corporations as the one outlined are confessedly necessary, in order to enjoy the profitable fruits of honest toil. The fear seems to be that if any of these large plants is left free to exercise the business judgment of their respective managers, they will simply cut each other's throats in the

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loving ambition of widespread quotations, and one and all eventually go to the "demnition bow-wows."

As the jobbers and retailers themselves are just ending a year of business, in which net profits are an indefinite quantity, and expenses to market their stocks loom up so largely as to give anxiety to their domes of thought, the Hardware trade are surely not in sympathy with the throttling of a healthy competition between manufacturing plants amply protected by tariff legislation solely in their favor. All the governmental authority in existence cannot prevent the foolishness of unwise competition, the throwing away of opportunities to sell at a profit upon an ascertainable cost, which is too readily done when the desire to see goods move, is stronger than the old-fashioned business sense that argues a halo of profit should surround them when they do.

It is a matter worthy of comment and remembrance, that the National Hardware Association of the United States, whose annual convention was so successfully held in Buffalo, recently, has been the model after which another association of like character in Great Britain has been modeled. Correspondence was opened some time since between leading Hardwaremen of England, and the officers of the American association, and the information which was so gladly and willingly given by these officers, has borne direct fruit in the Old World. The English association was started on July 9th of the present year, and to-day has upon its roll some forty of the leading Hardware manufacturers, wholesale and retail houses, etc. This number is expected to be largely increased in the immediate future, and several local associations have become affiliated with the parent concern. One of the officers of this association, in writing to the secretary of its American neighbor, declares that "We see the promise of a most complete organization of the Hardware trades of this country. We are working very much on your lines. We, like yourselves, do not attempt to regulate prices, but we are to-day against trading between manufacturers and the public, believing that the ironmonger is the necessary medium for all retail trading."

A reception was tendered on December 1st by the Hardware Merchants' & Manufacturers' Association, of Philadelphia, Pa., to John Needham, of Manchester, England, who was visiting the City of Brotherly Love on the invitation of William W. Supplee, president of the National Hardware Association. Mr. Needham is visiting this country with a view to opening trade connections with manufacturers in the Hardware line. He favored the Association with an address on the commercial relations existing between Great Britain and this country, and expressed the hope and expectation that the sale of American goods in his country was yet in its infancy.

Edward Miller & Co., Meriden, Conn., and Nos. 28-30 West Broadway, New York, are issuing a handsome little catalogue describing and illustrating the Burdick Cyclometer, a full description of which may be found in our page of specialties for this issue. It is a handsome and attractive publication. They are also furnishing the trade with several leaflets descriptive of Miller's A1 Bicycle Lamp, the Everlit Bicycle Lamp, their Bicycle Lock Stall, Gem Bicycle Holder, etc. The leaflets will be sent upon application.

Poetry Hath Charms.

A Cleveland Hardwareman, prompted by an article published recently in *Hardware*, on the subject of collecting poor accounts, writes us agreeing that more is to be accomplished by a dunning letter couched in good natured language than one breathing threats in harsh words, and relates the following as an illustration:

"It was our custom to have a new clerk put in his spare time writing letters to slow customers. A clerk's merits were measured largely by the result of this work. I remember that up in Michigan we had a particularly bad case. It was a bill of $12 against a man named William Rose. It had become outlawed, and was considered a dead duck, but every once in a while we gave it a whirl. Finally one day, the last clerk put on, a bright young fellow, laid the following verses on my desk and asked permission to mail them to Rose:

Oh, William Rose, oh fragrant rose,
Yourself it is who surely knows
Unsettled bills are bad.
They soil our books, they spoil our looks
And make the heart grow sad.
So William Rose, feel in your clothes
And find twelve dollars there.
The goods were sold in days of old
Before we had white hair.

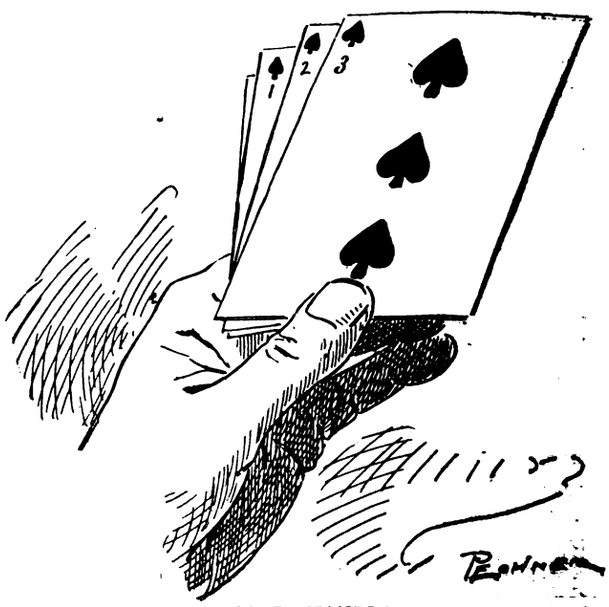
"They were forwarded, and inside of a week the man sent us the money, explaining that 'he had always intended to pay the account some time, but couldn't hold out no longer agenst sech a demand.'"

Reduction in Clippers.

The Gillette Clipping Machine Co., Nos. 110–112 West Thirty-second Street, New York, manufacturers of the famous Gillette Clipping Machines, announce under date of December 4th an important reduction in prices. Their Model B has been reduced from $35 to $20, and their Model E from $25 to $10. Two cutters go with each machine, and orders can be sent direct or from any dealer or agent. These clipping machines have been too long upon the market to require any extended description in this connection.

The W. Bingham Co., Cleveland, Ohio, have issued a handsome little guide for the holiday shoppers, giving a list of seasonable goods handled by the Hardware trade, with special application to the Christmas season. It is surprising, when looking over this list of three full pages, to see what a great opportunity the Hardwareman has for the display of holiday goods.

Hardware Terms Illustrated.



A SPADE HANDLE.

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HARDWAREMEN AND RAILROADS.

There has been so much said in times past concerning the complaints of shippers, of unjust treatment and discriminations in the handling of freight, that *Hardware* was moved recently to make inquiries of prominent Hardware houses in various parts of the country, as to the exact situation at the present date. We can honestly confess that these inquiries were put forward with the expectation that a great many more evils would be uncovered, than has been the result so far. The above frank admission does not detract from the fact that it is with pleasure we record the various expressions and statements of experience, found in the following letters. The present situation shows the fruit of excellent labor on part of such associations as the Southern Hardware Jobbers' Association, which, we believe, has made the freight question in times past a matter of serious study. If the railroads of to-day are giving better satisfaction to the shippers of freight, it is because of agitation and concerted action on behalf of those most interested, and the result shows that this question, like all questions of public policy as applied to business, is settling itself, and coming to a fixed basis.

The houses which we quote are representative in their line. There are a number of small points brought out in these letters which are of interest and worthy of attention. We should be pleased to hear from any one who has special knowledge upon any of the points touched upon, or who can throw light upon the relation of the railroads to the Hardware public.

A number of the letters which we have received are as follows:

TWO WAYS IN OHIO.

Editor Hardware: In our opinion, there are two ways to handle railroad companies. One way is, where there happens to be a delay on a shipment, to growl at them, jump on them, condemn that and every other railroad in the country, thus getting them in an unpleasant mood to start with, and making it very hard for them to hold their temper, and carefully consider and correct your complaint.

Another way is, when there is any cause for complaint, to call the proper official's attention to it in a nice, gentlemanly manner, and ask him if he won't correct it. Our experience in the latter is the only way to treat complaints against railroad companies. We have pursued this course on many occasions, and have never yet failed to find a very accommodating gentleman in charge of the department; a man who realized that the merchants' and railroad companies' interests were identical, and was only glad to have any irregularities reported, as this is about their only chance to discover incompetent and careless employees.

Railroad companies have their faults; so have we; and when brought into contact with them, you are very liable to find out that your own faults are about as numerous as theirs, and that certain corrections can be made in our own shipping department, that will aid the railroad companies very much without any extra trouble to ourselves, and thus working together, all will be harmonious.

Cleveland, Ohio. THE MCINTOSH-HUNTINGTON CO.

HAD SOME BITTER EXPERIENCES.

A prominent jobbing house in the Southwest writes us:

Editor Hardware: We, like a great many others, have, as you state in your letter, had some bitter experiences. So far as our inbound freight from all commercial centres is concerned, we have no complaint to make against any of the railroads; the difficulty in our case being that the through rate of freight from our competitive points, to a great many points in our territory, is a disadvantage to us. The inbound rate, plus the local rate out, is considerably greater than the through rate. Occasionally, when this matter is brought before the proper authorities, they in a measure correct these errors, but not to the extent to which the jobbers are entitled. Another evil that we encounter is the difference in weights. We now have on record in our office quite a number of instances where the railroad weight has exceeded the actual weight of contents of car, all the way from three to ten thousand pounds. While we do not pay the freight in these instances, nevertheless it causes us inconvenience and time, for in order to convince the railroad people of this fact, we have to make affidavits of the weights and our invoices, and render them copy of the same. To our way of thinking, there is no reason why the weights should not be correct, and there should be some measures taken to force the railroad companies to abandon this practice. We think that the cause of it, in a great many instances, is that the weigher is not careful enough, and permits a part of the car, either in the front or rear of the car being weighed, to be on the scales at the same time with the car containing the contents being weighed.

We also encounter difficulty on overcharges on less than carload lots, and also weights.

The above stated complaints are the main ones; we could also point out some minor ones, and at any time we can be of further benefit to you in the matter, we shall be pleased to assist you.

TROUBLE WITH EXPRESS COMPANIES.

The following pertinent suggestions come from a prominent house in the South:

Dear Hardware: There is trouble in this section of the country with the express companies, and we think you could include that in your work as well as the railroads. When we order an article by express, we have no way whatever of knowing what the express is going to be, and we find that the charges are not at all uniform. Sometimes they are twice as much as at others—in other words, it seems to us that express companies are arbitrary as to their charges, and they should be required to furnish a tariff sheet of their rates to any customer requesting same.

We think the mere fact of having this information, even though their tariff sheet should be high, would be a great benefit.

GIVES THEM FULL CREDIT.

A Southern correspondent speaks as follows:

Editor Hardware: We are not in any way interested in railroads, except as shippers, but we can only say that for us, taking all things into consideration, the railroad companies do their work remarkably well. There is not as much trouble with them in proportion, as there is with the average factory, and much less than with the average customer. That they make mistakes, is unquestioned. Who does not? But we believe they make a conscientious effort to do the best they can, both for the community and the individual; but in this, of course, they have to consider their own interest, just as the rest of us.

We have never, in our entire business experience, made a reasonable request from a railroad company, that was not granted; in other words, we were never refused a request made to a company, because we only made a reasonable request.

We have attended business meetings with regard to rail-

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roads and freight, and we have never attended to one where, to our mind, the requests made were reasonable. The speakers usually seem to think that the railroad company should do its work for nothing, and be kicked in the bargain. We have found railroad people just like other people; no better and no worse; usually a little broader than other people, because their position made them so. We have obtained from them concessions which have been of enormous benefit to our particular trade in our community, and we have done this by trying to work to their advantage as well as to our own, and we are sure that the concessions obtained were of advantage to every Hardware jobber in our section. Animosities, as a rule, do no good, and very few people seem to understand this.

NO TROUBLE IN ATLANTA.

Editor Hardware: We have little or no complaint against the transportation companies.

Atlanta, Ga. BECK & GREGG HARDWARE CO.

GET SLOW DELIVERIES.

A leading house up in Maine says:

Dear Sir: Answering your kind favor, we could give you quite a number of points from which we get very slow deliveries from the manufacturers.

From Pittsburg, our freights are, on an average, over two weeks in transit, even where we have full cars, and sometimes over three weeks

From New Haven, Conn., our freights are from seven to ten days in transit.

From St. Johnsbury, Vt., five to seven days in transit.

Points farther west than Pittsburg, three to four weeks.

ALL RIGHT IN IOWA.

An Iowa house says:

Editor Hardware: In reply to yours, we beg to say that we have no complaints to make with regard to the transportation companies engaged in business at this point.

Our business both in and out is promptly handled and at fair rates to all concerned. You probably know that the railroads in Iowa are working under what is known as the "Iowa Commissioners Distance Tariff." These rates seem to give satisfaction to both shippers and the railroad companies. As far as delays and annoyances are concerned, the companies represented here are very considerate, and endeavor to handle the business very promptly. We therefore have no complaints to make.

Overcharges are settled promptly, and we know of no discrimination existing at this point.

DO VERY WELL.

This statement comes from Kentucky:

Editor Hardware: We have no complaints to make of the railroads handling goods. Indeed, we think they do wonderfully well, all things considered. As it is to their interest to get and transport freight, and as the competition between them is quite keen, we believe that difficulties which used to be encountered are overcome. We have goods arrive in good condition, if properly packed, and with reasonable promptness.

The only thing which occurs to us which would improve the service greatly, would be the adoption of the "civil service" rules by which the older employees, who have proven themselves worthy, should be retained. Confusion which sometimes arises, is from exercise of favoritism on the part of officials in putting new and untried material into places of responsibility.

THE SITUATION IN CLEVELAND.

Editor Hardware: Upon receipt of your recent favor regarding transportation facilities from Cleveland, Ohio, we referred the same to the Transportation Committee of our Chamber of Commerce, asking them to tell us what they could, that we might transmit the same to you. We are just in receipt of their reply, which we enclose. We will say that our experience confirms Mr. Scott's letter. We really cannot, from our own records, pick out a point or a line where there is habitual delay or poor service, and so far as we know, the other houses here could report a similar condition of affairs. Yours very truly,

Cleveland, Ohio, December 4, 1897. THE W. BINGHAM CO.

The W. Bingham Co., Cleveland:

Gentlemen: We take pleasure in replying to your recent favor relative to the desire of the editor of *Hardware* to publish something bearing upon transportation conditions in this city.

While our shippers are not, of course, exempt from all the annoyances and difficulties which naturally arise in handling the traffic of a city as large as Cleveland, the transportation conditions generally are satisfactory. Rates in most instances are equitable; quick dispatch of shipments is the rule, and a very decided improvement has been made during the last three years in the time required for the settlement of claims. The above results, as you know, have been brought about largely through the united co-operation of our shippers with the transportation committee of this organization. This committee entered upon its work in 1893, with the desire to treat all matters laid before it in a spirit of fairness, both to the shipper and the transportatiou lines. It has endeavored to adhere rigidly to this policy, and its work in consequence has been one of mutual helpfulness, and has always received hearty encouragement and support from the transportation lines. The following quotation from the report of the board of directors of this chamber two years ago, so aptly represents the situation as it is to-day, that it seems worthy to be submitted: "Our relations with all the common carriers have been uniformly of a pleasant and cordial character. Our interests are mutual and identical, and any course of opposition, the one to the other, is fraught with danger to each, and the popular notion of necessary conflict between the two is without the semblance of a foundation. Cleveland has no better friends than the representatives of her transportation lines, including our valuable lake service; in the maintenance of a spirit of mutual helpfulness will reside one element of the strength of this organization."

Should you desire to forward to the editor of *Hardware* any portion of this letter, it, of course, need not be used anonymously; on the contrary, the committee will gladly furnish any further information in connection with its work which may be considered of interest to the readers of that journal. Very respectfully,

F. A. SCOTT,
Secretary Transportation Committee.

The Cleveland Chamber of Commerce, December 4, 1897.

A UNIFORM CLASSIFICATION.

A Western house writes us:

Editor Hardware: We have no particular grievance against the railroad companies, for while we get hints now and then of cut rates, we have nothing tangible to submit. If you can agitate the substitution of a uniform classification East and West, think it would serve to remedy some of the existing evils.

The New England Sportsmen's Association, of Boston, Mass., has been incorporated with a capital of $20,000. It is organized to give public exhibitions of goods, arms, boats, camps, etc., and encourage athletic exercises and field and forest sportsmanship. Harry Dutton is president and W. L. Hill, treasurer. The remaining directors are Edward Read, F. G. Webster, E. J. Wardwell, O. R. Dickey, Paul Butler, Butler Ames, John E. Thayer, and Charles W. Dimmick. F. H. Prince, E.D, Jordan, H. E. Russell, E. V. R. Thayer and F. B. Crowinshield are stockholders.

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Echoes From Buffalo.

The man who carries a cheerful frame of mind, a healthy body, and a good pair of lungs, to a convention of the National Hardware Association, is pretty sure of having a good time.

If he don't, let him blame nobody but himself.

If he hides his identification button, goes off into a corner, covers his face with a newspaper, and grows gloomy over the market reports, he is quite sure of being left alone, and can sit and peacefully breathe in his own company, without interruption. No one is going to turn a search light upon him, nor will President Supplee appoint an investigating committee to look him up.

This has no personal application, as we don't know of a member of the Association who is built that way.

On the contrary, the membership, taken through and through, from No. 162 to No. 56, or from No. 88 to No. 55, (see your key) are a genial and social aggregation, assembled in convention for business purposes, but making a holiday of the whole affair, and ready to let their light shine socially, in the hours when business is laid aside.

These hap hazard recollections and sentiments are brief gleanings from the prolific field of Buffalo, in the memorable campaign of mid-November.

Those identification buttons are a great thing, and no well-regulated convention can get along without them. You wish to find someone whom you have not met personally, but who is known wherever the trumpets of fame are blown—say James H. Ritter, of the Biddle Hardware Co. (we will assume, for the moment, that there is a Hardwareman who don't know Mr. Ritter, whose letters in each issue of *Hardware* are models of their kind). You take out your little book, turn to Pennsylvania, and there you see the legend: "167. Jas. H. Ritter, Biddle Hardware Co., Philadelphia." You slip the book into your pocket, and go about on a still hunt; and after a time you spot your man, introduce yourself—and the whole thing is done.

For instance, the writer of this entered the cafe of the Iroquois, for breakfast, and found himself *vis-a vis* with a handsome young man, from whose coat lapel depended the number "155." Out came the book, with the remark, "It may not be polite, sir, but as you are a member of the Association, I must see who you are"—and lo! the gentleman was T. F. Smith, of the Smith Bros. Hardware Co., Columbus, Ohio, who have been correspondents of *Hardware* for years. What was the result? An acquaintanee was formed, and a pleasant hour spent, where otherwise two strangers would have faced each other.

You look at the button—it does the rest.

It has been suggested that this idea could be employed to advantage in organizations like the New York Hardware Club, where one becomes so familiar with faces, but has no sure means of fixing the name to the face.

The sessions of the Association are run wide open—for the members—but are closed to everybody else. This is not because there are deeds of darkness, nor words of evil, to be done or spoken, within the walls. It is a little family conference of the jobbers of the country, and there are, of course, in every family, some things that need to be talked over in a friendly and confidential manner. One don't go about shouting personal affairs from the housetops. To all appearances, the sessions are devoid of noise and excitement, and in all the gatherings, no member has been seen to emerge from under President Supplee's gavel with broken bones or a bloody nose. Some talking is indulged in now and then, but it is dignified and good natured, and has for its main purpose the good of the trade.

An efficient press committee, whose chairman is George T. McIntosh, of Cleveland, are charged with the task of giving out such news as would be of interest to the trade; and so far this task has been performed with courteous promptness, with good judgment, and to the satisfaction of all concerned.

The great Hardware houses of Weed and Walbridge were thrown wide open for the use and entertainment of guests. Hobart Weed, Harry Walbridge and E. C. Neal were on hand all the time, ready to do anything that lay within the power of a mortal Hardwareman to make the visitors understand that they were the temporary owners of Buffalo. A favor may be done in a perfunctory way that leaves but a small sense of obligation, and, again, it can be tendered with such courteous tact as to leave a sweet taste in the mouth forever after. It is this latter brand that they keep in stock in Buffalo.

Barnett's Silver Medal Award.

The G. & H. Barnett Co., Philadelphia, Pa., the well-known proprietors of the Black Diamond File Works, have received an award from the Nashville Exposition, of a silver medal for the excellence of their goods. This was the only and highest award made on their line of goods, al-



though there were others exhibited. The fact speaks once more of the high character and reputation of the products of their factory, which have been so well known for so many years to the trade.

Brass Goods Mfg. Co.'s New Salesroom.

The Brass Goods Mfg. Co., Nos. 86 to 92 Third Street, Brooklyn, N. Y., who are large manufacturers of stamped bronze, brass and tin goods, many of which comprise a complete line of lock manufacturers' trimmings, have recently opened a new sample and salesroom at No. 117 Chambers Street, this city, which will be in charge of their New York representative, W. F. Brainerd, who in his position of local selling agent, has become familiar with the introduction of similar goods to the trade in recent years.

We bespeak for Mr. Brainerd the confidence of the trade, as his long experience in this important line has made him well-known among the local and nearby dealers.

Curtis & Curtis, Bridgeport, Conn., have published a leaflet calling attention to some very important changes which have been made in their No. 116 Power Pipe-Cutting and Threading Machine, by which it will be much more simple of operation and more compact, as well as being more effective, and a much better machine in every way. The leaflet carries a full description of the same, and is accompanied by a circular describing Brock's Patent Chain Pipe Wrench, which they are also successfully manufacturing.

The Stowell Mfg. & Foundry Co., South Milwaukee, Wis., are sending their friends a number of cards illustrative of their registers and ventilators, hangers and rail, shoe lasts and stands, etc., etc. On the reverse side of the card is a picture of their extensive works, and some information as to the character and quality of goods which they are putting forth.

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BRUCE & COOK.

In the last decade many changes in the method of transacting business, greatly increased facilities for the acceleration of commercial movements, and every possible means that could be devised for the prompt filling of orders, have marked the most radical of changes in many mercantile houses which have previously been counted as the most conservative.

Bruce & Cook, Nos. 186, 188 and 190 Water Street, and Nos. 248 and 250 Pearl Street—the oldest metal house in the city, having been founded in 1812—have been subjected to the necessity which makes change a condition of commercial existence, and have recently been undergoing a transition state in order to keep pace with the exactions of



their constantly increasing business, producing in the interior of No. 190 Water Street improvements more modern in scope and connections more convenient for the transaction of business.

The main office on the lower floor has been perceptibly enlarged in area, by absorbing the old-time entrance and passage way connecting, and by so doing, providing ample room for the desks and office equipment needed for the convenience of the individual members of the firm, which now consists of Russell W. McKee, S. A. Jennings, P. R. Jennings, F. C. Jennings, I. R. Bruce and E. C. Cook. The entrance to this floor has been changed to the opposite side, entering from No. 188.

The second floor has been entirely renovated and refitted for the convenience of the office department, the staff of assistants finding increased accommodations in their new and convenient quarters, adjoining which is the mill order department, now cozily and comfortably located, and able to receive proper attention, being under the care of A. G. Cooper and his assistants. This department, annually increasing in importance, greatly needed the improved facilities now provided for the growing traffic.

The great business of this old house to-day shows in every division of its industry greater evidence of increased life and vigorous vitality than would have been deemed possible during the few years past. The changes that have been made in the transaction of the metal trade during that short period have been many and far-reaching; shipments of importance in tin plate and sheet iron, running into thousands of boxes of the one, and hundreds of bundles of the other, can now usually be made by telegraphic aid direct from the mills, making only one handling of freight essential, which at the present close margin of profit is an item of prime importance.

Still this old house has an extremely large local tinners' and manufacturers' trade, to the wants of which in every analogous branch of their important business, they have successfully catered for too many years to count; and for their requirements the entire 37,000 square feet of their premises is fully stocked with the many and multifarious items constantly called for. Goods from this stock are sold in quantities of greater or less importance, and at prices somewhat in advance of mill quotations, as the pro rata expense of handling an assorted stock increases in an inverse ratio to the size of the quantity specified, ranging, as it frequently does, from a single sheet of a special gauge of iron, zinc or copper to full packages of either; or from a truck load of tin plate delivered on dock in New York, to a carload of the same shipped from mill direct.

The buildings Nos. 186 and 188 Water Street and Nos. Nos. 248 and 250 Pearl Street are so constructed that the interior of the buildings are connected by archways, so that every truck is loaded under cover systematically and perfectly, and upon every hand is noticeable the large stock of tin and terne plates, metals, sheet iron, copper and zinc, wire, etc., needed for their trade; the prompt shipment and delivery of which upon demand, has given them the great popularity they have so long enjoyed, to the advancement of their prestige and the furtherance of their prosperity.

In reference to this double building, built a number of years ago expressly for their purpose, it is doubtful if there is a building in the country more solidly constituted, it having been especially constructed for safe storage of goods of such immense weight as their regular stock. The flooring of the basement has four layers, concrete, brick, cement and planking; this makes a thick, compact and water-tight flooring, excluding all possible moisture. The superstructure rests upon numerous massive iron columns and solid masonry, which renders the whole building incapable of being shaken or jarred in the slightest degree, no matter what weight, moving or stationary, may be upon the floors. Numerous iron pillars sustain all the upper floors, while thick timbers and girders, closely placed together, impart unusual solidity and freedom from vibration to every floor.

The growth of business of this pioneer house in the metal trade from the earliest times would make interesting history, as exemplifying in a remarkable degree the evolu-

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tion of business methods that have made this nation the leader of the mercantile world in all that pertains to progressiveness, enterprise, conscientious endeavor, ambitious achievement and deserved success.

This old and reputable house, with its esteemed predecessors, has occupied the same business location for eighty five years. The founder of the house, Mr. John M. Bruce, in 1812 was a young man, enterprising, conscientious and hard working, without cash capital, but with a natural ability and practical experience which proved, eventually, the most abundant capital by which he succeeded in laying the foundation of his fortunes. The walls of the very building he occupied now enclose the offices of the present firm, which are shown at the right of the lower portion of the illustration herewith, No. 190 Water Street. It is part of our local history as a city, that these walls formed part of a building erected in 1760 by the "English Copper Co.," and which was referred to in the journals of that conservative period as being an "imposing building, giving evidence of the thrift and business development of the city of New York and that vicinity."

The building was three stories in height and 24x35 feet in dimension. In this building, which in common with the merchants of the period (1812) was used as a dwelling as well as a workshop and store, Mr. Bruce laid the superstructure of a continued prosperity which by industry, honesty and fair dealing forming the foundation stones, has never known a backward step since this early day of its inception.

This old establishment even now is filled with many associations reverently binding it to the past; and there is scarcely an old dealer in metals, who is still in business, after nearly a half century spent in the paths of traffic, but has found a grateful welcome within the precincts of this time-honored house at some time in his commercial career. The loving fragrance of the "good old days" still lingers harmoniously around this local landmark which, since 1855, has known no change in the name of "Bruce & Cook," although the personnel of the firm has in its makeup found the addition of younger partners, and more modern methods add the force and vigor demanded by the commercial requirements of an increasing activity.

Wants Catalogues, etc.

A severe fire occurred in Kittanning, Pa., on November 26th, by which a number of stores were consumed, at a loss of $100,000. The flames started in the store of the McCullough Hardware Co., on Market Street, about 2 A.M., supposed to have been caused by natural gas in the cellar. A number of other buildings were consumed. The loss of the McCullough Hardware Co. is estimated at $20,000. The manager writes us that he will reopen with a new stock at once, and wishes manufacturers to send him their catalogues and price lists at the earliest possible moment.

A Buyer Wanted.

A prominent jobbing house in the West would like to receive any information that is possible from manufacturers in regard to steam-fittings, iron pipe and fittings, valves, etc. They also have an opening as buyer in these special lines for some one who is well posted thereon. We can guarantee that they are a prominent and reliable house, and any communication addressed to us in response to this notice, will be forwarded to them immediately.

The Van Wagoner & Williams Hardware Co., New York and Cleveland, Ohio, are complimenting their friends with the presentation of a beautiful little Samson Anvil, made of steel, nickel-plated, and oxydized in gold. It makes an artistic paper weight, and has the honor of representing, in miniature, a successful and first-class line of goods.

Columbia Calendar for 1898.

For the thirteenth year the Columbia Pad Calendar makes its appearance promptly on time for 1898, and while its general style is of the same familiar character, the many bright thoughts it contains, contributed by its friends in many parts of the country, as well as abroad, are new, and will be appreciated by all who take an interest in bicycling, healthful exercise and good roads. The 1898 Columbia Pad Calendar contains a convenient arrangement of dates that will prove useful to busy men, and as plenty of space is reserved for memoranda, the pad may be used as a diary



and as a reminder for business appointments and obligations. It is neat in appearance, takes up but little room and is both ornamental and useful for the desk, while its stand is of such character that it may be used either upon the desk or hung upon the wall.

The moon's phases are indicated in the calendar for the benefit of those who wish to have this information. The calendar is ready for distribution and all orders for it will be filled upon the day of receipt. It can be obtained by mail pre-paid for five two-cent stamps by addressing the Calendar Department of the Pope Mfg. Co., Hartford, Conn.

Death of Joseph J. Tillinghast.

A dispatch from Troy, N. Y., under date of November 30th, announces the death of Joseph Joslin Tillinghast, one of Troy's most eminent and influential citizens, and the vice-president of J. M. Warren & Co. His death was caused by pneumonia. Mr. Tillinghast was born in Troy on January 30th, 1831, and was descended from an old New England family. The first of the family, Elder Parson Tillinghast, came to this country at the age of 21 years in 1643. Joseph J. Tillinghast was educated in Rhode Island and began his business career in 1846 as a drug clerk. He was treasurer of the Troy Savings Bank from 1851 to 1856. From 1857 to 1860 he was engaged in the Hardware business at Keokuk, Iowa. In 1861 he returned to Troy and engaged in the banking business with his father. In 1872 he entered the firm of J. M. Warren & Co. He was a member of the State Board of Charities, and was president of the Troy branch of that body. In the administration of Andrew Jackson, Mr. Tillinghast was Collector of the Port of Troy. He is survived by his widow and two brothers, Charles W. Tillinghast and William Henry Tillinghast, of New York city. Mr. Tillinghast was a member of the Reform Club of New York, and belonged to a number of local organizations.

In our list of members of the National Hardware Association, published in the issue just preceding, in connection with the annual convention in Buffalo, we omitted the name of Orgill Bros. & Co., Memphis, Tenn. This was done because of the fact that the name of this company did not appear in the list of members published in connection with the official programme.

The International Cycle Fittings Co., No. 74 Reade Street, New York city, are about to issue a voluminous catalogue for 1898. Inasmuch as they are catering especially to builders and dealers, it would be well for readers to send them a business card addressed in care of Department "L."

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NEW GOODS AND SPECIALTIES.

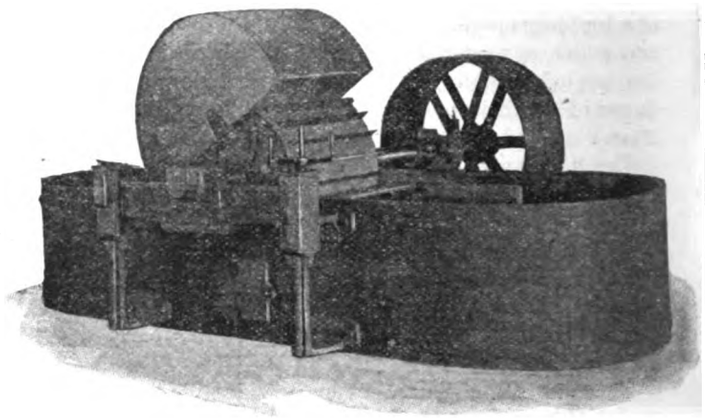
The New Departure Cyclometer.

In this connection we illustrate, in full size, the New Departure Cyclometer, manufactured by the New Departure Bell Co., Bristol, Conn., and marketed by their selling agents, John H. Graham & Co., No. 113 Chambers Street, New York. The company state that they were the first to introduce the barrel form of cyclometer, and that this pattern has become recognized as standard. Their purpose from the beginning of their manufacture in this line has been constantly to produce an instrument possessing all the desired requirements and eliminating all objectionable features. They say: "The results of more than six years of watchful experiment, unsparing expenditure of skill and money, are embodied in the perfect form of cyclometer here shown, which possesses every feature of excellence that human ingenuity can devise or human skill produce. Effort has been directed to the production of a cyclometer possessing the essentials of accuracy, strength and durability, with the fewest possible working parts and the lightest construction. The elimination of all springs, ratchets, levers, pawls and other intricate parts, the use of mechanism giving direct and positive action, have co-operated to produce a cyclometer of smaller size than any heretofore devised, thus meeting the requirement of small size in the fullest manner. Constructed of a special nickel silver metal, possessing great strength and rigidity combined with extreme lightness, the New Departure Cyclometer is endowed with features of compactness, strength and solidity impossible of attainment with materials and processes heretofore employed. Following the best known methods of engineers and designers, adhering to the sound principles of mechanical demonstration, but few parts are employed, all motions made positive and direct, and all springs, levers, etc., likely to give trouble in use have been discarded. By such means only is possible the production of a cyclometer of absolute accuracy under all conditions, which will not become deranged with the severe usage to which cyclometers are subjected, but which does its work faithfully and accurately, giving results upon which the fullest reliance may be placed. Its operation being simple, sure and reliable, no attention is required when once applied. It can be read from the saddle at a glance. Figures are plain and bold, yet neat and in good taste. It records up to 10,000 miles and repeats, the last mile being shown by tenths, making easy reading for short distances. Adjustment to the wheel is easily and quickly made and the 'trip' is small and inconspicuous." The company announce that prices to the trade will be quoted by John H. Graham & Co., No. 113 Chambers Street, New York city, and quotations will be such as to assure dealers of a large and profitable business. The company guarantee this cyclometer in the fullest possible manner, and behind this guarantee is the reputation and standing acquired and sustained by many years of successful relations with the trade.



Rubber Washer.

The attention of manufacturers of rubber goods is respectfully called to the illustration presented herewith. The signs of the times indicate that there is a demand for superior goods, and it is now the object of the best manufacturers to secure an improvement of methods of production as well as in the improvement of the quality of goods. We present herewith an illustration of a Washer that the manufacturers, The Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio, state will positively remove bark, seed and dirt from rubber stock that cannot be removed so successfully by the old process of rolls, for the reason that the rubber is pressed or crushed over and over again, doubling



back again and again, which keeps the dirt to a certain extent inside the web. The manufacturers say: "This Washer will clean and wash out everything foreign to the stock. The action of the Washer is to pull and stretch the stock and water rushing along, loosens the dirt and bark, and the same is carried away, and deposits the sand on the bottom and the bark on top, where it is skimmed off. The rubber being lighter than the sand and heavier than the bark, passes around through the beater roll until it is all clean and ready to take out, when the tub is again filled with another load of stock." The directions for the operation of the machine are as follows: "The crude stock is first crushed by the first rolls into a web or sheet which is in turn shredded and forked in the tub, at which time water is added and the operation of cleaning commences." They build tubs of various sizes:

No. 1,	10 feet 6 inches	long;	capacity,	10 hours.	..1200
" 2,	12 "	long;	capacity,	10 hours.	1400
" 3,	14 "	"	"	"	1600
" 4,	16 "	"	"	"	.....1800 to 2000

Tubs are either wood or iron, with iron bottoms or wood bottoms. A special arrangement for handling rubber stock is one feature of this arrangement of the machine, and "for hard rubber factories it has no equal; also soft rubber goods factories regard the merits of their goods as superior to any others, when same are free from holes and bad spots. This machine insures the product and will save money by saving stock and labor." They desire the correspondence of parties interested, and hope to make quotations. Send for particulars.

New Oilers for 1898.

Cushman & Denison, No. 172 Ninth Avenue, New York, who make oilers for almost the entire trade, have just introduced a couple of novelties for next season. Their "Perfect" Pocket Oiler, which is used with leading high grade bicycles, has been even further improved for 1898 by a change in the valve which includes an extra metal washer

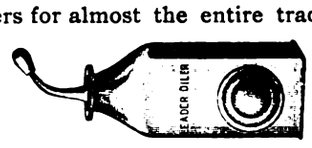


FIG. 1.—"LEADER" OILER.

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and a spring of increased strength. These changes will make the "Perfect" tight even in the hands of careless users, and also render it practically indestructible. The "Star" Oiler has also been improved by a system of testing the soldering under hydraulic pressure in each oiler, making the body of extra elastic metal, using a specially cut

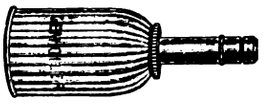


FIG. 2.—"GEM" OILER.

thread for the screw which prevents the spout from jarring loose in the tool bag, etc., etc. The new oilers include the "Leader" Oiler which is practically the "Star" with a curved spout. This curve in some makes of wheels renders the oiling of certain parts an easier matter. The spout is closed by screwing against a leather washer in a metal bulb. The oiler is about the same price as the "Star." The "Gem" Oiler is a cheaper oiler that will meet the approval of that part of the community always looking for something cheaper. Although low in price the "Gem" Oiler will be very well made. The body is cylindrical or barrel-shaped. The corrugated side adds strength to the oiler when knocking around with other tools, and also aids the flow of oil to the spout.

The Philadelphia Lawn Mowers.

In the issue last preceding, we made extended mention of the handsome new catalogue issued by the Philadelphia

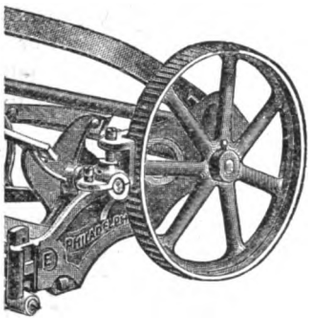


FIG. 1.—HIGH WHEEL.

Lawn Mower Co., Nos. 3107-3109 Chestnut Street, Philadelphia. An examination of this catalogue shows that this old-established concern is indeed in excellent shape to take care of the business for 1898. They also announce many improvements to their present line of Mowers, making them more simple and durable, as well as the addition of some new styles to their already large and complete line. Among their many new styles is the style E Mower, with ten-inch driving wheel. They have introduced in this

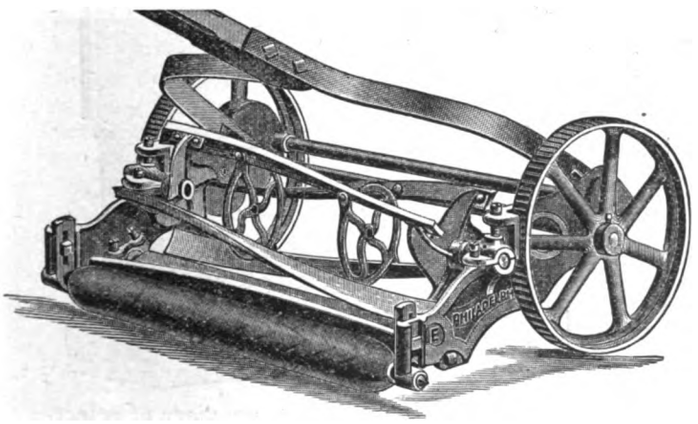


FIG. 2.—STYLE E 10-INCH DRIVING WHEEL.

mower some novel as well as practical features, not to be found in any lawn mower on the market to-day. By referring to the illustration, it will be seen that this mower can be stripped of the driving wheels, cylinder and gearing in two minutes, and these parts can be replaced in position and the mower placed in the grass ready for work, without any adjustment whatever being necessary, thus making the mower very simple and easy of repair. This mower is

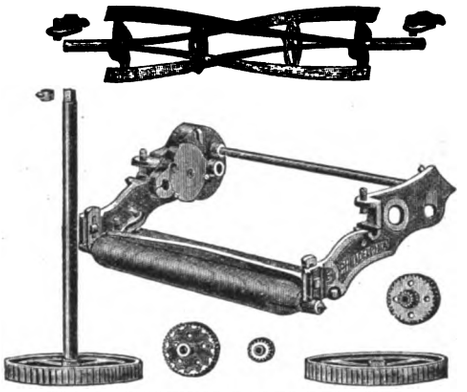


FIG. 3.—SHOWING PARTS REMOVED.

made in four sizes: 15, 17, 19 and 21 inch. They also make this mower, as shown in illustration, with an eight-inch driving wheel, in four sizes, 14, 16, 18 and 20-inch. They also manufacture a large and complete line of hand mow-

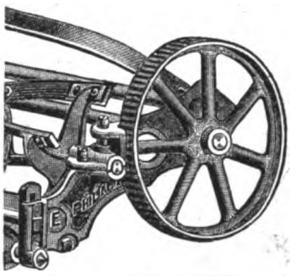
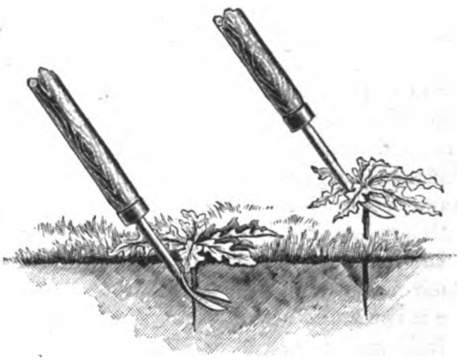


FIG. 4.—LOW WHEEL.

ers, horse mowers, sweepers, grass collectors, sprinklers, etc. They also manufacture the Drexel and Gold Coin mowers, which are of the best of the second grade mowers.

Pastime Weed Extractor.

The annexed illustration shows a very ingenious device for extracting weeds from lawns. The illustration shows the Extractor in two positions, first that of cutting the weed about two or three inches from the surface, and the second that of lifting the weed from the earth. It is described as "one of the most practical devices which has ever been put on the market, and while it has only recently been put on the market, it is meeting with considerable success and is destined to fill a long-felt want for an article for this work." It is manufactured by the Pastime Lawn Mower Co., De-



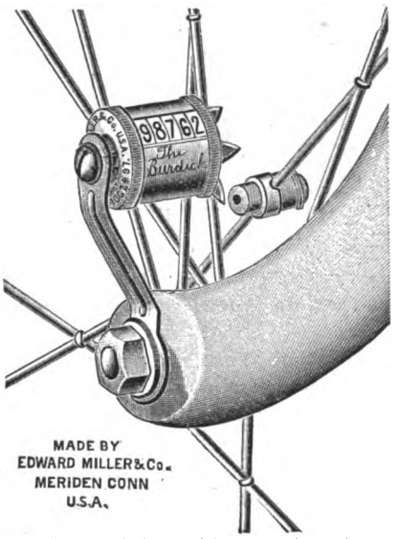
troit, Mich., manufacturers of the Pastime Lawn Mower, a mower put on the market within the last year. Full explanation and circulars will be sent to any one making application to the above firm.

The Burdick Cyclometer.

We show in this connection the Burdick Cyclometer, manufactured by Edward Miller & Co., Meriden, Conn., and Nos. 28-30 West Broadway, New York, which has been placed upon the market with a large degree of success. The aim in the creation of this cyclometer was "to combine accuracy with simplicity in the smallest space

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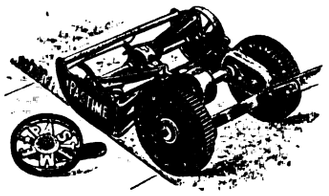
possible, on an entirely new principle." This, the manufacturers say, has been done, using less than one-quarter the number of parts in use in other cyclometers. They further state that all parts of the barrel, excepting the lettered cylinders and the external case, are turned out of solid rod metal, by the accurate work of the terret lathe. They further say: "The numbers are enameled on silver-plated cylinders, and thus stand out bold and conspicuous to the rider in the saddle. These numbers are all kept in perfect alignment, and do not change gradually, as in other cyclometers, but instantly. It registers tenths of miles, by the red-lettered right-hand cylinder. It registers ten thousand miles, and repeats. The figures are protected by a glass window, carefully ground and cemented into the case, and are further held in position by the knurled edges of the barrel. It will register forward only. Reversing the action of the wheel has no effect on the numbers. Hence a perfect record of distance traveled is always kept. Our Star Wheel on cyclometer will not over or under register. With six teeth in connection with our patented striker, it has been demonstrated that it will infallibly register, whereas in cyclometers of eight teeth in the sprocket wheel, there is danger of constant false registering. The only hole in the cyclometer is for the sprocket-



wheel shaft, and careful packing under the neck of this wheel prevents any entrance of dust and moisture. The bracket is a novel and ingenious device, allowing at all times a clean cut view of the barrel, and providing for all variations of width between the spokes and end of the axle. At its upper end it is provided with a split cylinder, tapered inside. When the cylinder enters the barrel, it can be adjusted to fractions of an inch by means of a special screw which spreads the split cylinder. The barrel can thus be held firmly at any desired position. The striker is made just large enough to be attached with ease by an ordinary screwdriver. It is quickly adjusted, and is provided with a roller of vulcanized fibre, which noiselessly engages the sprocket as the wheel of the bicycle revolves. Each instrument is carefully put together and tested before it is packed up and sent out of the factory, and each is fully guaranteed to do all that is claimed of it. The Burdick Cyclometer is made to record 720 revolutions, based upon the number of revolutions which a 28-inch wheel will make in a mile."

Improved Pastime Lawn Mower and Trimmer, 1898 Model.

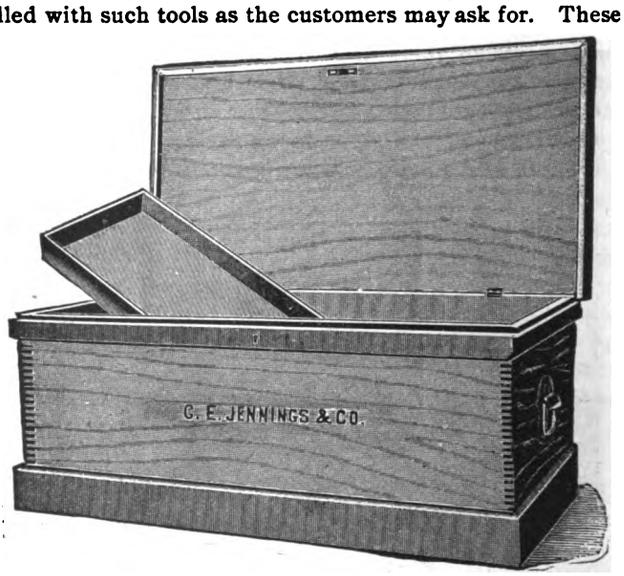
During the past season the "Pastime" Mower and Trimmer was introduced to the public for the first time, and on account principally of its trimming qualities, there was a large number sold. Like all new articles, there is always room for improvement, and on account of a few complaints that the mower did not cut absolutely even, it was decided to remove the wooden roller at the rear of the knives which caused the unevenness in the cut. In the present construction the two small six-inch guide wheels occupy the same relative position to the knives as the large wheels in the old style mower consequently making just as uniform and even a cut. While with this construction one of these wheels passes over the unmown grass, the weight is so slight, carrying as it does only the forward part of the mower, that it has no effect whatever on the grass in mat-



ting it down as with the old style. As will be seen from the illustration, the large wheels which carry most of the weight of the machine and the pressure of the operator go only over the mown grass. The side wheel and plate is absolutely as rigid as any part of the machine when in position, and can be put on or removed in less than five seconds. One or both of these side wheels may be removed. With this construction and handle adjustment that allows the handle to operate between its highest point, and on a straight line with the machine, this mower can be operated on steep inclines, terraces, etc. One of the principal features claimed for this Mower and Trimmer is that it can be kept sharpened by a novice by the use of a file, without the possibility of damaging the machine. It is made throughout of the very best material and fully warranted by the manufacturers, the Pastime Lawn Mower Co., Detroit, Mich., who will be glad to furnish any of their patrons with full particulars of the machine, which is contained in a circular which they issue to the trade.

Model Tool Chests.

C. E. Jennings & Co., No. 79 Reade and No. 97 Chambers Street, New York, manufacturers of mechanics' tools and Hardware specialties, are still making a specialty of Tool Chests, and are presenting a line of goods which have for some time past occupied a first-class position in the trade. These chests are designed particularly for the Hardware trade, and not for the notion or toy trade. They are getting them up complete with tools, or empty, as the trade may require, and when furnished empty, they can be filled with such tools as the customers may ask for. These

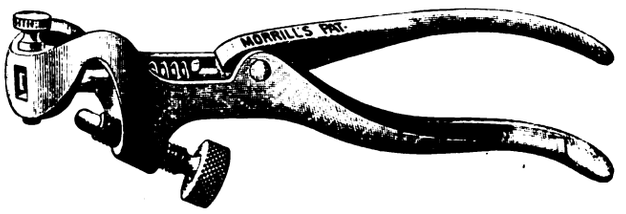


Gentlemen's Empty Model Tool Chests are made of selected chestnut, hardwood moldings, with sliding tray, fitted with a lock and key, and nicely finished. The various sizes run from 15x6½x5 inches, with movable tray, up to 32x18x16 inches deep, with two sliding trays, having saw-racks to take in the full length of the saws. A sample tray is shown in this connection. Full details, with prices, etc., will be sent on application.

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Morrill's Saw Sets.

Mr. Morrill addresses the trade as follows: In substituting the new Set in place of the old one, re-arranging but still retaining the essential parts in the same relation, with new and correct devices for positive adjustment to suit all sizes and capacities of hand saws, I hope to meet the approval of all mechanics and the Hardware trade in general. I have had fifty years' experience in dressing saws for all kinds of work. I am still anxious to learn more. Every man to his



business. The saw maker knows best how to make a good saw; there his mission ends. It is an insult to the intelligent mechanic for any one to presume to prescribe what kind of file he shall use, the kind of clamp, or what saw set is best. In spite of all efforts to influence him, he will use that which appeals to his intelligence and more especially to the article that has served him best in times past. It is generally conceded that the great advantage of setting saws with Morrill's Set over the old method, viz.: with a hammer or a hammer set, or a punch and steel block, is if the saw is soft it will not fibrate; if hard, it will not granulate; either is fatal to the keen cut of the saw, for after undergoing the hammering process, the grain of the steel is so distorted that it will not hold an edge. The process of pressing is decidedly favorable. A good tool maker never hammers a piece of steel after it is cold, as it is a well-known fact that by so doing, the cutting quality of the metal is materially damaged, whether it be a saw, chisel or any tool for iron or wood work. I will here suggest that it is not necessary to break or injure the most delicate saw made, if the operator will only study the principle, and be guided by his own senses. The saw teeth should be set as near to their points as practicable without the set slipping; in that case drop the setting block a little. Set the saw often, as the teeth wear at their points on the outside, forming a wedge and the saw necessarily binds. By setting the teeth over again one-hundredth of an inch, your saw will then go on cutting smooth and straight. Two or three times setting between filings will be found advisable. A great many saws are spoiled, bent and broken for the want of proper attention.

The Jewel Boiler Drying Rack.

The Gem Mfg. Co., No. 167 Chambers Street, New York, is placing upon the market a very useful and salable article under the name of the Jewel Boiler Drying Rack, which is intended to be adjusted about a kitchen boiler in

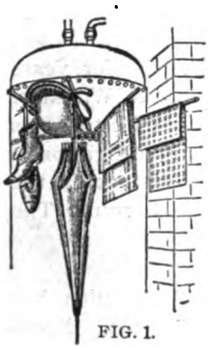


FIG. 1.

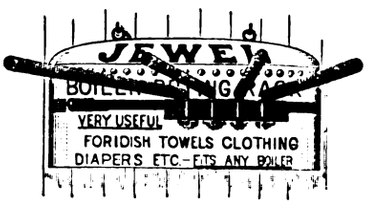


FIG. 3.

the manner indicated in the accompanying engraving, Fig. 1. It is easily adjusted and can be used on a stove-pipe as readily as on a boiler, and can be placed in such a position as to be entirely out of the way, when not in use as a dryer. In Fig. 2 is shown the supporting band, which, as well as the hangers, is made of steel, heavily tinned; the whole affair weighing but eight ounces; each rack is packed in a neat pasteboard box, ready to be handed out to a customer. It will undoubtedly prove a valuable addition to the kitchen, as almost anything liable to get wet, like clothing, hats, shoes, umbrellas and leggings, can be hung overnight conveniently, and without danger of scorching.

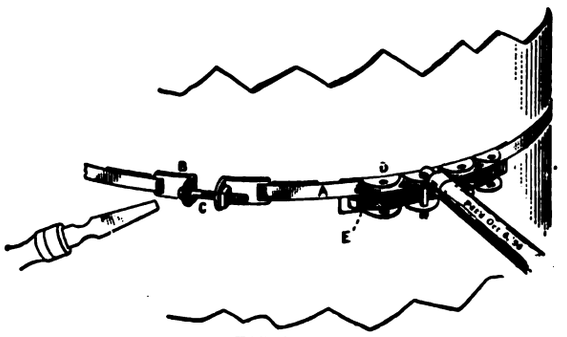
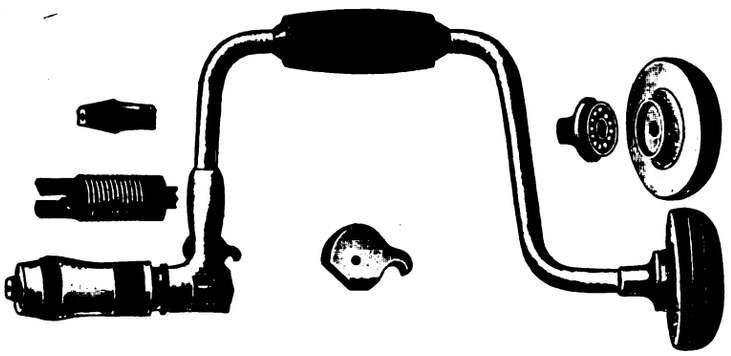


FIG. 2.

Dealers are furnished with all necessary circulars for local distribution, and in orders of one dozen or more a display rack represented in Fig. 3 will be forwarded, designed to represent the top of a kitchen range boiler, which is attractively lettered in colors, and provided with a bracket and four arms. They are intended to be retailed at 35 cents each; sample will be sent by mail to dealers only, on receipt of 25 cents in postage stamps.

Improved Ratchet Brace.

The accompanying illustration shows the improved patent Ratchet Brace now being placed on the market by the Lancaster Machine & Knife Works, Lancaster, N. Y. Among its important points is the simplicity in its mechanism, a lever blade being used for ratcheting, and so constructed as to ratchet either right or left and to work stationary, thus doing away with all pins, rings and pawls. The jaws are not depended upon to hold the bit entirely, as the



interior of the socket is slotted to receive the same, the jaws guiding the bit for an exact centre, doing perfect work with any size of bit. The twelve balls in the head run on two steel cups fully as strong and easy running as those found in the bicycle.

D. R. Harvey, who for the past eight years has held the position of manager of the bicycle department of the John P. Lovell Arms Co., Boston, Mass., has severed his connection with this firm, and accepted a position as general manager of the new store of the Iver Johnson's Sporting Goods Co., to be opened at No. 408 Washington Street, Boston, after January 1, 1898. Their line will be the Iver Johnson and Fitchburg cycles, together with a full stock of firearms, sporting goods, etc.

The Bigelow & Dowse Co., No. 229 Franklin Street, Boston, Mass., announce that they have taken the New England agency for the wheels of the Davis Sewing Machine Co., Dayton, Ohio, and are also agents for A. Featherstone & Co., Chicago, Ill., and the Juvenile line manufactured by the Fay Mfg. Co., of Elyria, Ohio.

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Topical Western Matters.

Editor Hardware: Travelers covering Ohio, Indiana, Kentucky and Michigan are meeting with very gratifying success, and sober expectations have been realized thus far. The fall season opening late, buying was not done on as large a scale as had been anticipated by optimistic forecasters, yet the results would justify us to predict movements in the early spring which will compensate manufacturers and distributers for the check which had to be met this fall. If dealers did not stock up to their capacity, or commensurate with the conditions now prevalent, it was on account of the proximity of the year 1898, upon which our better hopes are based. The full extent of commercial prosperity can not reach us till then; industrial prosperity is already at hand, and the former is based on the latter. Our manufacturers can make no mistake in shaping their operations in the manner thus outlined. The new year will be a duplicate of 1892, as regards general industrial and commercial activity. Shrewd men have long since figured out this contingency, and are preparing to share in the results. Our shrewd men are the shrewd advertisers, and if you will watch their movements from this time forward, you can't go astray on the outlook for '98. In the words of a big tool manufacturer: "We let others talk and guess and grope about; we act, and that means *advertise*. There's nothing so conducive to restoring confidence and the buyer's spirit than a strong, healthy business announcement. Type has wonderful powers of persuasion."

CYCLE SKATING

may be one of this winter's features. The sport is said to be somewhat crude and clumsy, but these "foreign" defects will quickly disappear, American manufacturers once convinced that there is any sort of a future for the cycle skate. Little interest is manifested in the novelty by dealers, but let American youth fall in love with the sport, and those who will be prepared to meet the demand will certainly not rue the investment.

"CIVILIZED NIMRODISM

is a necessary accomplishment of every American gentleman who loves life and nature," is the somewhat strong passage of a "hunter's season" announcement of a Chicago Hardware dealer. Another passage reads: "The arms I handle are as infallible as can be made; they hit the mark. And if at first you don't succeed with the ammunition you have bought at my competitor's, try again with mine." A glossary reads: "To prove the effectiveness of my arms and ammunition I have secured from hunters using them, specimens of fowl and game. These are on exhibition in my store all the week. I handle artificial refrigeration, and there's no chance of their spoiling. If you are interested in effective and yet artistic shooting, come to my store."

RULES AND RULERS.

"Some men are made to rule, and others to obey. We rule in rules."

Union Nut & Bolt Co.'s.
Darling, Brown & Sharpe's.
Alfred Field & Co.'s.

This is the trenchant ad. of a dealer who specializes rules once a year. On the remaining 364 days he specializes something else, always couched in original presentation. When the year is up, he's astonished at his own success.

THE COLUMBIA CHAINLESS WHEEL

is attracting a great deal of attention. All up-to-date agents have it on "running" exhibition in their windows, and as a window feature it has no rival, for the present at least. The sales already made, and the inquiries, would prove that the novelty will be at least an experimental success. There will be a full quota of chainless wheels on the market by next spring—that's the outlook—but there seems to be at present a deal of secrecy in this matter. This secrecy would not obtrude itself were it known that many manufacturers have experimented in vain with producing a chainless model that will stand the test, and at the same time, be more than a crude success. Still others are guarding their achievements in this line behind closed doors, for reasons best known to themselves but apparent to the wise. There's many a ghost and skeleton in cycle factories now. And shall we be surprised once they are "unchained"? The coming cycle season will be of unusual interest—and perhaps disappointments.

AS TO STOVES.

"This will be your winter of discontent if you haven't got a good stove, and it will be doubly so if you have a good stove, but bad fuel. We have sold a lot of good stoves this season. We sell only good ones; yet some have been tried and found wanting. Of course, we heard of it—verbally and literally—profanely, too. But we didn't blame you until one of our stove doctors could make an investigation. Now, we are convinced our stoves are as good as represented when sold, and herewith proclaim it to the public. The fuel was at fault. Who's to blame now"?

This is the circular and newspaper announcement of an aggressive stove man. There's a moral to this: Stove buyers frequently inquire of the dealer what sort of fuel would be best adapted to the stove they have selected; especially is this the case in coal stoves. Wide-awake dealers are never at a loss to recommend coals that are uniformly reliable (it's none of our concern whether they make a commission out of it or whether they do it from a sense of accommodation or policy). So be prepared to satisfy this caprice; it only pertains to a certain class of buyers—as a rule, the best. "Cheap" buyers won't bother you about fuel, for that's often a very delicate matter with them. So if you must maintain a certain stove policy, be sure fuel is an element of it.

J. B. RINDFLEISCH.

Cleveland, Ohio, Dec. 4, 1897.

The Berger Mfg. Co., Canton, Ohio, are sending their friends a very cute and attractive representation of a "Yellow Kid" as the same is produced in Ohio. The brilliant light in which the kid finds himself, in his travels through the world, is due to the fact that he is carrying one of Berger's Improved Tubular Lanterns, which have won such great success since being placed upon the market. These lanterns are made in different sizes and shapes, information concerning which will be sent by the manufacturers on application. A good suggestion to those interested in lanterns is made by this company, in another circular which they have prepared, bearing and illustrating the word "Investigate." The company notify us that this lantern has given great satisfaction, and that the sales are such to convince them that it is about correct.

Salmon Washburn, fifty-three years old, who for years had been employed as a salesman by Burditt & Williams, Hardware dealers, at Nos. 18-20 Dock Square, Boston, was found dead in bed at his lodgings. Upon investigation it was found that one of the burners in a gas stove in the room was not lighted, while the others were burning. The gas was turned on at full force.

The Baltimore Implement & Vehicle Association has elected the following officers for the ensuing year: President, H. W. Matthews; vice-presidents, J. S. Rawlings, J. Albert Arnold; secretary and treasurer, A. J. Cleveland; board of directors, B. G. Thomas, D. C. Avery, V. S. Brumbaugh, George Fairbanks and the executive officers of the association.

HARDWARE costs only One Dollar a year.

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Recent Trade Publications.

Hess, Snyder & Co., Massillon, Ohio, have issued a complete and attractive catalogue of the Boomer Wrought Steel Ranges, made so successfully by them of No. 14 gauge steel, and described as "the heaviest and best ranges on earth." These goods are shown in their various forms, and accompanied by other specialties which this company make, including their patented novelty well and cistern pumps, improved Boomer furnace, patent chimney ventilators, large bale kettles, cellar grates, etc. A detailed description of their ranges is furnished, so that any dealer can see at a glance just what points are advanced in substantiation of the statements above made. In a prefatory note the company say: "After a thorough investigation of all points of merit in steel range construction, we set to work upon a range that we feel confident will overcome existing difficulties. We are prepared with our improved machinery and many years' experience in working up sheet iron and steel to give the trade a steel range of much heavier material at a price considerably less than the same range could otherwise be sold for. We use No. 14 gauge cold rolled patent leveled steel throughout, no doubt the heaviest steel used in the body of any range to-day. (We would kindly ask the dealer in this connection whether No. 14 gauge steel can be successfully worked up by hand into a range.) Machinery used in this class of work is very expensive, the average range maker not having sale enough for their ranges to afford machinery, have continued to use lighter steel than they know it ought to be. Every dealer who has handled steel ranges for a number of years, certainly knows the consequences of light gauge steel, and will not hesitate to push a range that is made of the heaviest steel in preference to something inferior. We are honest with you in the above statements and kindly ask you to be with us from the beginning. In our opinion we can lead you on to a more satisfactory steel range business. The cast iron parts are elegantly carved and considerably heavier than we have ever used on a cast iron range. Notice well the weight of the Boomer Steel Range given under each cut."

The Monarch Refrigerator Works, Greene & Smith, proprietors, Burlington, Vt, have sent us a large and attractive catalogue for 1898, illustrating and describing their extensive line of Monarch Refrigerators. The illustrations have the benefit of being well printed on heavy paper, and anyone examining the same is about as well posted in regard to the character and construction of the goods as if he had the actual article before him. They show a complete assortment in all popular styles and sizes, and state that the line is a desirable one for the dealer to handle, as their list prices are low and their discounts liberal. In further explanation they say: "The new line of plain hardwood refrigerators and ice boxes, which we added last season, met the demand for a good, low priced article, and our trade increased largely as a result. These goods are well built from good stock, have neatly shaded frames and mouldings, and, being well proportioned, are more attractive than many of the so-called ornamental goods of other makes, at much higher prices, with which we invite comparison. If you desire a reliable 'leader,' our Nos. 75 to 89 will fully meet the case. These with our carved hardwood and softwood styles combine to make one of the most complete lines of refrigerators in the market. With the advantage of a long practical experience in the refrigerator business; a fine equipment of the latest and most improved machinery; a force of skilled mechanics, and an unlimited supply of first-class hard and softwood lumber and other material at our command, we are enabled to furnish our patrons with an attractive and reliable article at a moderate price. We also build special refrigerators for every purpose, and will gladly furnish estimates on receipt of dimensions, location and other necessary details as to style desired." This catalogue will be sent to any who are interested on application to the address above given.

In addition to the handsome little catalogue to which reference has already been made, the Philadelphia Lawn Mower Co., Philadelphia, Pa., have also issued an illustrated catalogue and price list for the year 1898, bound in boards, and giving a still more detailed and comprehensive account of the extensive and successful lines of goods manufactured by them. In a preliminary announcement they say: "We invite your attention to our twenty-ninth annual catalogue, and trust by careful inspection you will find some styles that are adapted to your trade; as we are the largest makers of lawn mowers in the world, our output consisting of thirteen distinct styles of hand, and four of horse and pony mowers. All our goods are constructed upon the best mechanical principles, being simple and superior in construction; are durable, having more useful and valuable features; are less liable to get out of order, and are guaranteed to do the finest work and give entire satisfaction. We solicit correspondence from new customers, and shall be pleased to furnish any information desired."

We have received from the Bissell Carpet Sweeper Co., Grand Rapids, Mich., and New York, a very attractive publication entitled "Advertising Helps," showing a large number of very attractive and taking advertisements which have been prepared for the benefit of those handling these sweepers. The same will be sent to any dealer upon application.

Albert Willey, No. 179 Lake Street, Chicago, is sending the trade an illustrated description of his improved enameling oven.



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Review of the Markets.

With the ordinary requirements of the markets in the usual sluggish condition anticipated at this time of the year, but little business is being done through the regular channels. Such goods as meet with a quicker demand during the holidays are being ordered with a fair amount of confidence in their meeting with a ready sale after being exhibited. The thousand and one things which at this season make a representative Hardware stock attractive, have this year been abundantly taken advantage of, and the dealers' sales have been largely increased thereby.

Wire Nails. The orders for wire nails have been coming in from the trade in a very satisfactory way, so much so, the product for the month is being booked quite rapidly on a basis of $1.40 for car load lots at mill, with prospect of higher quotations in the immediate future. Purchasing is stimulated by unusual conditions, having reference to the combination of interests referred to in other columns and the usual January shut down. New York quotations are $1.55 for carload lots on dock, and $1.65 for smaller lots from store.

Cut Nails: Prices on this line of staple goods remain without much sympathy with the movement in wire nails. Prices are unchanged at the quotations recently given: $1.15 base for carload lots at mill; carload lots on dock, $1.30. Smaller lots from store, 10 cents per keg advance.

Carriage bolts, Nuts and Washers, etc.: Prices in this line of goods have been held very steadily for some time, the demand being regular, and less irregularity in price has been noticeable than was the case a few months earlier, the prices on the whole being fairly maintained.

Shovels and Spades: As in all other combinations to control prices, a strong disposition prevails among the manufacturers of these goods to make another advance before long. They feel confident in the strong condition of the market, there would be little difficulty in holding to the higher prices when established. The combination have so far worked very well in harmony with each other's interests; but the belief in an advance being desirable at this time is not generally encouraged.

Augers and Bits: The cheaper grades of goods in this important line have been held for a long time at very low and unsatisfactory quotations. This necessarily creates a great diversity in prices, as the demand for the better grades being only nominal by comparison, are constantly forced into the background by the purchases of greatly inferior goods. It is doubtful if much improvement will be felt under present conditions.

Enameled Ware: A strong movement is already referred to as being on the eve of making a consolidation of interests, by which the leading factories in this great line, the Eastern and Western manufacturers, can so divide the business of the country between them as will prevent irregular methods and prices in marketing the immense product constantly turned out. A consolidation of such vast interests, it is claimed, will result in greatly reducing the current expenses of marketing their product, and the economic saving so effected will be such a profitable advantage, that but few changes may be necessary in the low quotations now prevailing on these lines of goods. While this organization is not as yet an accomplished fact, it is claimed to be so far advanced that only minor considerations have as yet to be arranged for, before its final consummation.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, quote prices as follows: In lots of less than 5 barrels, 39 cents per gallon; in lots of 5 barrels or more, 38 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon.

THE DAVENPORT TRADE.

There is some disturbing element most of the time that detracts the minds of Hardwaremen from business. Elections, Congress, State and national conventions; and now we have the report that there is to be a three hundred million dollar syndicate formed that will monopolize the entire output of steel rods, wire, and all goods manufactured from wire. The result is business depressed, prices weak on goods made of wire, especially wire nails, screws, etc. From pools, combinations and trusts, good gracious deliver us! SICKELS, PRESTON & NUTTING CO.

THE PHILADELPHIA TRADE.

Just now the proposed wire rod combination overshadows all other interests, and while, at first thought, only wire and wire nails are, apparently, included, it needs but a moment's reflection to show how greatly the uses of wire have increased in the last few years.

Probably there are few articles which have been put to so many varied uses and substitutions as the single article wire, and when it is considered that a combination of this kind will probably affect everything in which wire has a part, it can readily be seen how far-reaching and manifold will be the effects.

Apparently matters are progressing favorably, and, unless some unforeseen obstacle intervenes, the combination will probably be an accomplished fact at an early date. The principals disclaim any intentions of radical advance in prices, and yet higher and firmer prices must inevitably result. It is claimed that practically all the wire rod mills in the country are in the combination, and the fact that it is not a combination, but a complete sell-out to a single corporation, will show the strength of the new company. Whether such an immense corporation is to be desired is altogether an outside matter, and we Hardwaremen must simply deal with conditions as they exist, but it is probable, as already stated, that prices will be greatly strengthened by such a move.

In other lines business is very even, and without any remarkable features. While skates, sleds, snow shovels and other winter goods have sold with some freedom, the mild weather so far prevents the customary rush which is pretty sure to come if we have a cold snap before Christmas.

BIDDLE HARDWARE CO.

THE BALTIMORE TRADE.

Any large amount of business at the present time is unlooked for, the sales being confined entirely to such seasonable lines as skates, carvers, plated ware and strictly holiday goods. If comparison with previous years serves as a reliable index, then it may be safely stated that the fall trade of 1897 has been very satisfactory. Sales during September and October show a comfortable increase, and had we been favored with a little cold weather it is more than probable that the month of November would have shown a proportionate gain. In one material respect the closing days of the year show a marked improvement

BUYING CERTAINTY

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing.
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

Our line covers every variety of hose used for fire protection—Rubber Fire, Carbolized; Cotton Fire, Jacket or Plain, Knit or Woven; Cotton Mill, Rubber-lined; Linen, Rubber-lined or Plain; Chemical Engine. We also carry a full line of Fire Department Supplies. Whatever hose or fittings you use we supply, and whatever we supply is the best of its kind. For half a century our goods have stood for high grade material, high grade workmanship, high grade service. *In buying them you are as sure of what you get as of what you give—you buy certainty.*

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Indianapolis.... 79 S. Illinois St.
Philadelphia....308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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over the first six months ; we mean in the restoration of confidence. It is this return of confidence which makes possible any revival of business. It is not alone good prices for wheat or cotton or any other product, but the willingness of those who benefit by it becoming purchasers as well as sellers, sharing with others their prosperity. Provided no mal-legislation is inflicted upon us, this factor will furnish a tone to the spring trade exceeding the most sanguine hopes. The principal beneficiary of the higher prices for farm products has been the farmer himself. A large proportion of the Hardware sold in the spring is agricultural tools and farming implements. What more natural than to suppose the farmer will replenish his stock in the days of prosperity?

The far South has had two serious set-backs, the low price of cotton and the presence of yellow fever in their midst. But it is a land of perpetual youth. Out of the ashes of fallen hopes, they will arise, like Athens of old, to a new and more vigorous life.

President McKinley's message to the Fifty-fifth Congress is a masterly document in its way, conservative and patriotic. Upon the first reading, one is in doubt which to praise the most, the policy of what is said or the wisdom of what is left unsaid. His attitude on the Cuban question is quite in a contrast to the warmth with which he urges the ratification of the Hawaiian treaty. The Dingley bill and the deficit in the revenues are passed lightly by as subjects of small importance—left to the tender mercies of time to determine. If the present Congress secures the passage of a genuine currency reform measure, it will earn the lasting gratitude of the business community.

Collections continue fair.

THE TABB & JENKINS HARDWARE CO.

THE CHICAGO TRADE.

The most surprising and unexpected occurrence of late in the Hardware circle in this city of "startling occurrences" is the closing out of business of the late firm of John Alling & Co., a business house that has always enjoyed a first-class standing and an excellent reputation for business honor and integrity, which dates back for a space of thirty-five years or more.

This firm has had the reputation of keeping good goods, giving fair prices, and extending honorable treatment to their customers. We sincerely regret to see them fall out of the list of Chicago Hardware dealers.

Their action in selling out their stock has resulted in a number of applications to our house from their former salesmen, and we have made room and secured the services of five among their principal travelling salesmen, who earnestly hope, by the same treatment extended in the past to the trade, aided by our own efforts in the same direction, to carry their large list of customers in our direction. In point of fact, we are already receiving the best of results in the way of new accounts on our ledger, and it goes without saying that we shall treat them well.

Our house trade has increased wonderfully the past two weeks, so that every available space in our store is now filled with orders. Business is more than ordinarily good for this season of the year. Many future orders are also coming to us for such articles as Wabash screen doors, wire cloth, poultry netting, and other spring articles.

Trade for plain wire and wire nails is stimulated by reports of expected consolidations of rod and wire mills, and manufacturers are already asking ten cents per keg advance for wire nails. Whether this can be secured by them remains to be seen.

The future prospect for business seems most excellent in this vicinity, and we look for a largely increased trade in 1898.

WELLS & NELLEGAR CO.

THE PITTSBURG TRADE.

Probably the most important matter discussed at the recent Hardware Jobbers' convention was the expense of doing business ; and those present who had not kept a careful watch of their expense account must have been surprised at the high average percentage of the membership when call was made for the figures.

The truth is that while taxes, rents, salaries and travelling expenses are as high as ever, the value of goods has fallen so much that it takes two or three times as many goods sold to produce the old amount of profit. The selling, handling, billing and collecting accounts for this increased amount of goods (no larger in dollars than of old), adds greatly to the expense. Then increased competition leads to additional expenses, more men are used on the road, more advertising by catalogues, etc., more postage, etc., etc.

Indeed, an up-to-date jobbing house of to-day must be equipped with the very best facilities for the rapid and accurate transaction of business, to live at all.

The effort among wire and wire nail men to effect a consolidation is being used to stimulate the market just now. Prices seem to be low enough, and should the consolidation be effected, they will no doubt be advanced. Yet we hope there will be no repetition of the short-sighted policy of the last wire nail pool, advancing beyond reasonable limits, and leading to general and widespread dissatisfaction.

A moderate price based on cost of production, with a fair profit to the maker, will enable them to hold the market, and avoid building up new competition.

A fair amount of general business is moving, which would be helped materially by severe weather. This may come any day, and will be welcomed by merchants generally.

LOGAN-GREGG HARDWARE CO.

THE GRAPHITE TRADE.

It is too early in the month to get at the total of sales, as reports from branch salesrooms have not all arrived, but indications are that November will take its place as a banner month.

Every mail brings in among the orders a fair sprinkling of requests to hurry unfilled orders, or to give dates when shipments may be looked for, and datings and promises make up no small share of our correspondence.

This state of affairs pertains to every line of goods we manufacture, crucibles and pencils being the leaders.

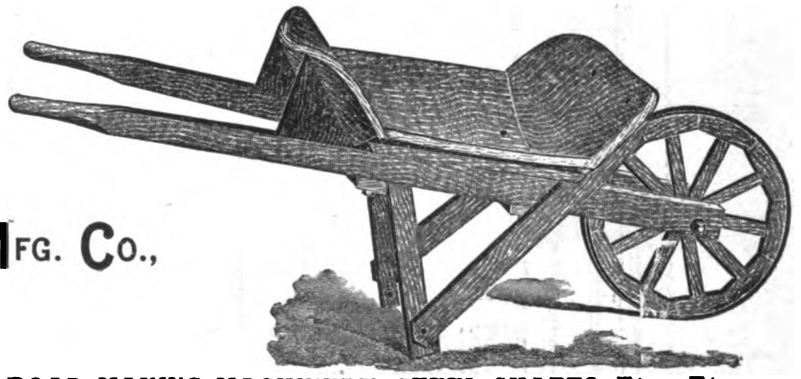
Numerous crucible orders from new sources indicate an activity among the smaller brass workers who are generally among the first to quiet down under a depressed condition of business.

Our new graphite preparation for brazing purposes is meeting with quick success, orders from bicycle manufacturers proving its special value.

This has led us to manufacture a special crucible designed for melting brazing metal and scientifically shaped to fit the tubing for brazing. Orders for these crucibles are already in advance of their output. Large paint users are steadily appreciating the peculiar value of "Dixon's

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.



THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

OILERS

25c. 10c.



Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—



The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

Silica-Graphite Paint," several contracts recently given out mentioning specifically that the paint to be used shall be Dixon's.

Collections are easy, with a disposition on the part of the Western buyers to discount their accounts. Prudent buyers are now sending in orders for January and February delivery. What more can we say?

JOSEPH DIXON CRUCIBLE CO.

Death of Samuel Frisbie.

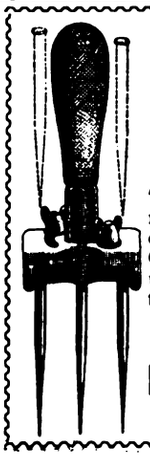
Samuel Frisbie, treasurer of the Upson Nut Co., and also secretary of the Union Nut & Bolt Co., died suddenly at his home in Unionville, Conn., on the 6th inst. He was a prominent figure in the last session of the Connecticut Legislature, and was looked upon as really the leader. His career there giving so much satisfaction, his name was prominently mentioned as a future candidate for governor. In local matters he was also prominent at the time of his death, being president of the Unionville Water Co. and interested in the electric road between Unionville and Hartford. His death will be keenly felt by all those with whom he came in contact.

The Foxboro Foundry & Machine Co., Foxboro, Mass., whose building was recently destroyed by fire, are to rebuild their plant in a substantial and fireproof manner. The main foundry building, which is about 80 feet wide and 140 feet long, is being replaced by a steel frame structure. A traveling crane runway, for handling materials in the building, is being arranged for, and provisions are also being made for suitable jib cranes. The steel framework is being furnished and erected by the Berlin Iron Bridge Co., East Berlin, Conn.

W. C. Heller & Co., Montclair, N. J., are issuing attractive leaflets in illustration of their shelf boxes, and also of their line of tool brackets. These goods are pretty well known to the trade, and have commanded a large degree of success since they were introduced. Both of them will be sent upon application.

Situation Wanted

SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York



Parker Ice Tools.

The only combination tools made. Our Shave can be changed into an awl . . . Crushers for Ice Cream Manufacturers are sold all over the country. . . . . .

SEND FOR CATALOGUE.

PARKER ICE TOOL CO., WORCESTER, MASS.

Spurt Advertising.

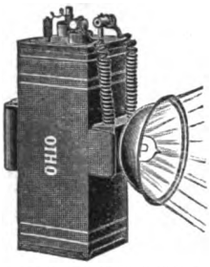
Spurt advertising, like a short-winded race horse, never wins the race. Just as well move your store every three months as to do spurt advertising. People may not need what you sell just now, but they will sooner or later, and if when they do want it they don't find your ad. where they first saw it, they will naturally conclude you have quit business. What a salesman is to your business, just such is your advertisement. Each sells your goods, and you cannot prosper without both.—*Age of Steel.*

Commercial Agent Moore, at Weimar, informs the State Department that there is considerable agitation in Germany in favor of a higher duty on American bicycles. He says that the duty is confidently looked for, in accordance with the usual German procedure when an American manufacture or product comes in competition with German products.



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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights $4.0
Necktie Elec. Lights 1.50
Edison Elec. Motors. 1.00
Battery Fan Motors. 5.00
$8 Medical Batteries. 3 9
$100 Bicycles, best make 39 00
$1.25 Bicycle Bells.... .50
Electric Bells, finest. .30
Dry Batteries, best.. .25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . .
Catalogues free.

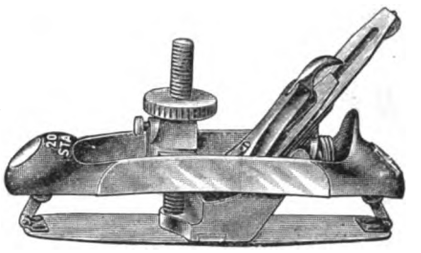
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

Stanley's Improved Victor Circular Plane.



The Flexible Steel Face of this Plane can be made concave or convex, by turning the screw which is attached to its centre.

No.20. Circular Plane, Nickel Plated, 1¼ in. Cutter, $6.00

The Tabb & Jenkins Hardware Co.

Recently a small stockholder of the Tabb & Jenkins Hardware Co., of Baltimore, made application for a receiver for the company. This action came as a surprise, of course, to the trade everywhere, but no one was surprised when the bill of complaint was promptly dismissed in the Circuit Court of Baltimore City. The Tabb & Jenkins Co. have prepared a statement, which shows very conclusively its condition in a financial way, and in view of this statement, the finding of the court seems to have been the only thing possible. In their statement the company say:

Baltimore, December 1st, 1897.

To whom it may concern: Concerning the application made for a receiver for this company, we are pleased to submit the following information, which we trust you will take the time to read carefully. We call your particular attention to the condition of the company as per sworn statement made to the Circuit Court of Baltimore City up to November 26th, 1897. Trusting to merit your confidence in the future as in the past, we remain,

Very respectfully,
THE TABB & JENKINS HARDWARE CO.
C. Taylor Jenkins, Secretary and Treasurer.

COPY OF SWORN STATEMENT.

ASSETS..

Stock and Fixtures...	$73,412.79	
Good debts due the company	52,435.41	
Cash on hand and in bank	7,979.95	
		$133,828.15
Total liabilities		42,590.82
Excess of assets over liabilities		$ 91,237.33

Signed, MARTIN LANE, President.
C. TAYLOR JENKINS, Sec'y and Treas.

The order of the court in full is as follows:

This case having been set for hearing and having been heard by the Court and the Tabb & Jenkins Hardware Co., the defendant corporation, having by its answer denied the allegations of the bill of complaint alleging it to be insolvent and having shown that it now has an excess of assets over liabilities of $91,237.33, and the Court having read and considered the said bill and answer and all the proceedings and being of opinion that the plaintiff is not entitled to the relief prayed for.

It is thereupon this first day of December, 1897, by the Court adjudged, ordered and decreed that the Bill of Complaint be and the same is hereby dismissed with costs.

Signed, J. UPSHUR DENNIS.

New Wire Combination.

At last the plan of organization which for several months has been in a condition of preparation, is so far advanced that the consummation of its objects only awaits the report of the appraisers on the value of the various plants which are to be taken into the corporation.

It is stated that an option, expiring February 15, has been obtained from each individual plant. If nothing intervenes to prevent its final completion, the result will be the most gigantic industrial corporation in the United States; embracing every wire mill in the country, two or three iron mines, as many steel mills, including blast furnaces and converters, and the entire output of another big plant.

The new company will possess a capital stock of $50,000,000, but if necessary to effect the desired object, even this large amount will be increased. It is the intention to pay for the purchased plants by giving two-thirds in cash and the remaining one-third in stock of the new company.

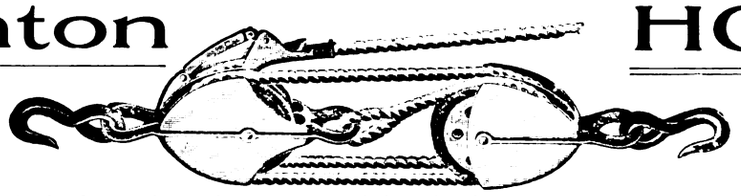
The best information obtainable credits J. Pierpont Morgan with backing the scheme up with all the cash necessary, while the plan of organization is supposed to have been created by John W. Gates, of the Illinois Steel Co., the Oliver Bros., of Pittsburg, endorsing every move so far.

The establishments which are to be taken in are: The Baackes Works and the Rankin, at Pittsburg (the Consolidated Steel & Wire Co.'s plants); the Beaver Falls mills; the mills at Joliet, Ill. and St. Louis; the H. P. Nail Co.'s works at the American Wire Works, and the Cleveland Rolling Mill Co.'s plant, at Cleveland; the big plant of the Washburn-Moen Co., at Worcester, Mass. (to be bought outright); the Pittsburg Wire Co.'s plant, the Oliver Wire Co.'s plant and the Oliver-Snyder Steel plant, at Pittsburg; the two mills of the Salem Wire Co., at Findlay and at Salem, Ohio; the entire output, but not the plant, of the Joliet Works of the Illinois Steel Co., to be purchased. It is thought that either Harry W. or George Oliver, of Pittsburg, may be called upon to preside over the destinies of this great concern.

STUBS' TOOLS.
FRENCH FILES & RASPS.
S. J. ADDIS' LONDON CARVING TOOLS.
HAMMACHER, SCHLEMMER & CO.
DIRECT IMPORTERS
209 BOWERY NEW YORK.

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The Canton HOIST



Can be used perpendicularly, horizontally, and at any angle in factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics.

MANUFACTURED BY THE NEY MFG. CO, CANTON, OHIO.

When completed in all its details, as at present projected, the corporation will manufacture wire in all its forms, from telegraph wire to wire cloth, furnishing its own raw material, and controlling the entire product from the mines to the market. The combination will be equipped to meet every description of competition at home or abroad, for after having absorbed all of the home variety they will have none to give a moment's thought.

It would appear that no disadvantage is at present contemplated toward the consumers. Certainly none that will arouse the old discussion regarding trusts, which was so fertile a subject for adverse criticism a year ago. With the control of the wire rod products, and the regulation of the home markets in consequence, a great opportunity will be given the company to reach out after foreign markets for a product large enough to control the world's supply of wire, and find every market on the globe open to conviction.

The consolidation of so many companies into one vast corporation will have the effect of disbanding the staffs of officers at the home offices, with the attendent representatives in various cities, the traveling salesmen, etc., who will all be dispensed with, in order to further the economic objects of the combination in the cost of production. On a product as large as is contemplated, radical changes like these will undoubtedly so cheapen production as to largely increase present profits independent of further economy in production.

The Simmons Hardware Co., St. Louis, Mo., has purchased the entire stock of the E. C. Meacham Arms Co., No. 306 North Fourth Street, one of the largest exclusive dealers in sporting goods in the West. This deal has been under consideration for about a month, and the purchasers will immediately institute a clearing sale. The Meacham Co. is composed of E. N. Beach, president; E. Weber, secretary, and Mrs. E. C. Meacham, widow of the founder of the business, was capitalized at $300,000, and the original value of the stock carried was $50,000 less. The firm did both a wholesale and retail business.

HARDWARE'S "Prices Current" are reliable

LAWN MOWERS

BUILT ON HONOR.

A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

LEADERS THE WORLD OVER.

Wise dealers will buy Lawn Mowers that will give their customers satisfaction not only for one year but for years to come.

THE PENNSYLVANIA,
THE NEW QUAKER CITY,
THE GIRARD,
THE CONTINENTAL,
THE GREAT AMERICAN,
THE NEW DEPARTURE,
THE WESTFIELD.

SUPPLEE HARDWARE CO.,

Market and Fifth Streets, Philadelphia.

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THE BEST IN THE CITY.

Deposit your Securities and Valuable Papers and Silverware in the new vaults of

National Safe Deposit Co.

OF NEW YORK.

THE MUTUAL LIFE BUILDING,
32 Liberty Street, New York.

Safes $5.00 per Annum and Upwards.

OFFICERS.

JAMES C. HOLDEN, PRESIDENT. JOHN A. FONDA, VICE-PRESIDENT.
J. LYNCH PENDERGAST, SECRETARY AND MANAGER.

DIRECTORS.

JOHN W. AUCHINCLOSS, - OF AUCHINCLOSS BROS.
FREDERICK O BARTON, - OF MINOT, HOOPER & CO.
JOHN A. FONDA, ASSISTANT TREASURER THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
JAMES C. HOLDEN, - PRESIDENT OF THE COMPANY.
ISAAC F. LLOYD, SECOND VICE-PRESIDENT THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
THEODORE W. MORRIS, OF THEODORE W. MORRIS & CO
B. AYMAR SANDS, - - - OF BOWERS & SANDS.

The Mutual Life Insurance Company

OF NEW YORK,

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

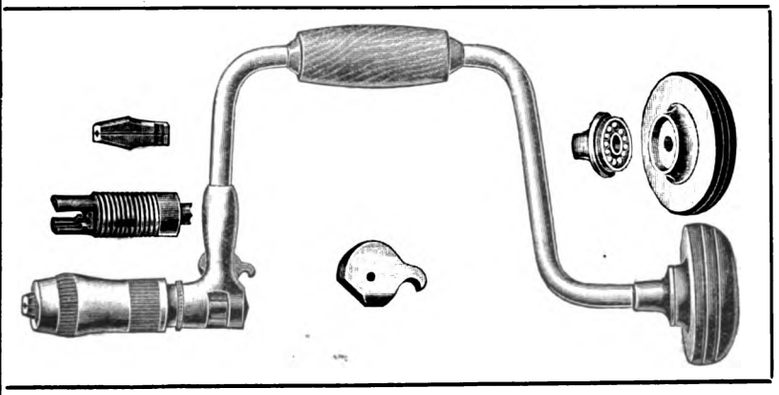
ROBERT A. GRANNISS, Vice-President.

WALTER R. GILLETTE, - - General Manager,
ISAAC F. LLOYD, - - - 2d Vice President,
FREDERIC CROMWELL, - - - Treasurer,
EMORY McCLINTOCK, - - - - Actuary,
WILLIAM J. EASTON, - - - - Secretary.

The Improved Patent Ratchet Brace.

BEST THING ON THE MARKET.

Note These Important Points of Superiority:



Simplicity of Mechanism.

Lever Blade Used for Racheting.

Rachets Either Right or Left, and to Work Stationary.

Does Perfect Work, with Any Size of Bit.

Twelve Balls in Head Run on Steel Cups, as Strong and Easy Running as those in Bicycles.

Also First Class Line of Butcher's Cleavers.

SEND FOR FULL PARTICULARS.

LANCASTER MACHINE & KNIFE WORKS,

LANCASTER, N. Y.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Colusa, Cal.—J. L. Swank has opened new Hardware store, carrying a full line of Hardware, sporting goods, etc.

Edwardsburg, Mich.—C. W. Dennis will open a Hardware store in the old furnace factory, which will be remodelled for that purpose.

Goshen, Ind.—Joseph B. Sheffer, formerly a clerk in the Hardware store of F. V. B. Minnich and later with A. M. Allen, and Henry Lehman, Jr., have formed a partnership to carry on the Hardware business and will occupy the room in the Masonic Block.

Marshall, Ill.—Will Shipe and Jake Kohl will open a new Hardware store in the Archer building. A brand new stock of Hardware of all kinds, tinware, stoves, tools, etc., will be brought on and displayed for sale. Mr. Shipe has been in the Hardware business for many years and both the partners have a wide acquaintance.

Martin, Mich.—J. Burr will open a new tinware store.

Massillon, Ohio.—J. J. Ripple has opened a new Hardware store at No. 25 West Main Street. He has secured the services of W. E. Yost, who has had a large experience in the Hardware business as manager.

Nortonville, Kan.—The Laurence Hardware Co. has been incorporated. Capital stock, $5000.

Northfield, Vt.—Farnsworth & Deuell have opened their new Hardware store in the Bacon block.

Richmond, Va.—The Richmond Hardware Co. has been incorporated, with William H. Parrish, president. Capital stock, $20,000.

Savannah, Ga.—One of the new concerns just established in Savannah, is the Neal-Millard Co., whose store and warehouse is at the corner of Bay and Whitaker Streets. This company handle paints, oils, varnishes, steamboat and mill supplies, sash, doors, blinds, lime, cement, plaster and builders' Hardware. B. B. Neal is the president and F. P. Millard vice-president of the new company.

Stanton, Mich.—Z. E. Briggs and Charles Holland will open an agricultural implement store.

Switz City, Ind.—R. O. Law, Hardware, has opened new store.

Changes and Improvements.

Atlantic, Ia. — James Jones expects to soon move his stock of implements, etc., into the building north of Shoudy Bros.' Hardware store, formerly occupied by Johnson & Thompson.

Blair, Wis.—Dalton & Gilfillan, Hardware, succeeded by Charles Johnson.

Brock, Neb. — William Benson, Hardware, succeeded by T. G. Bell & Co.

Bruning, Neb.—Duis & Geiken, Hardware, etc., succeeded by J. Fitzsimmons.

Colfax, Ill.—Bechel & Ellington, Hardware; H. W. Ellington has sold his interest in the business to A. Bierblower, who has taken possession.

Corbin, Ky.—Martin & Herren, Hardware, etc., succeeded by H. D. Herren.

Cornwall, N. Y.—G. W. Crawford, Hardware, etc., succeeded by Chas. H. Elliott.

Cuyahoga Falls, Ohio. — The L. W. Loomis Hardware Co. are erecting a large new warehouse.

Davey, Neb. — Philip Opp, Hardware and agricultural implements, succeeded by Nelson & Christenson.

Earlville, Ill.—E. S. Morsch, Hardware; stock has been purchased by D. Tripp, who will continue the same.

Ellsworth, Me.—S. W. Davis is offering for sale the stock, fixtures, etc., of the Hardware store of the late James F. Davis.

Galena Ill.—Stillman & Stahl, Hardware, succeeded by Millhouse Bros.

Holdrege, Neb. — A. P. Erickson, reported to have been succeeded by C. A. Hedlund & Co.

Lexington, Ky. — The Campbell Co, plumbers, succeeded by Charles Edgar.

Mason City, Ill.—Eulow & Cates, Hardware, have sold business to Wilson & Wilson, who have taken possession.

New Haven, Conn. — John E. Bassett, Hardware, store enlarged and improved.

Northwood, Iowa.—W. I. Brebner, Hardware, succeeded by John K. Ofsthus.

Plymouth, Neb.—H. H. Koenig, Hardware and agricultural implements; sold half interest to William F. Bersche.

Prairie, Ind.—F. Spaulding and H. Perkins are erecting new building which, when completed, will be occupied by them as an agricultural implement and Hardware store.

Princeton, Ill.—The J. E. Dabler Implement Co. is erecting a new building.

Rice Lake, Wis.—M. T. Howard, Hardware, succeeded by Osborne & Hoag.

Roann, Ind.—Ocker & Stone, Hardware and agricultural implements, succeeded by S. L. Ocker.

Santa Cruz, Cal.—Heath & Byrne, Hardware, succeeded by Byrne Bros.

Spencer, Col.—P. H. Lund, Hardware, moving to Paonia.

St. Clairville, Ohio.—B. S. McBride Co., Hardware; B. S. McBride has purchased the interest of A. McBride in the business, and will hereafter conduct the same.

Union Bridge, Md.—Repp & Haines, Hardware dealers, have broken ground for the foundation of their large new store building. It will be of brick, two stories high, with cellar under it, and be 22x90 feet.

Wakefield, Mass.—S. F. Littlefield & Co., Hardware, succeeded by new firm under the same style.

Wolcott, Ind.—William A. Pitts, Hardware, has sold interest to W. Kinney. The firm name now is Hinchman & Kinney.

Business Embarrassments.

Bryant, S. D.—Underwood & Berg, one of the largest Hardware firms in this part of the State, have made an assignment to the Farmers & Citizens' Bank. Their liabilities are about $9000, and it is thought that the firm's resources will cover the amount.

Cambridge, Mass.—George W. Barnes, Hardware, has assigned.

Crown Point, Ind.—A. H. Maxwell, dealer in agricultural implements, at Lowell, has made an assignment for the benefit of creditors, naming R. W. Bacon as assignee. The liabilities are reported at $3000, with assets $2500. Failure to make collections and inactivity of the market is the supposed cause. Mr. Maxwell has been in business at Lowell for twenty years.

Eaton, Ohio.—Bonner Bros., Hardware and implement dealers, of this place, have assigned to George H. Kelley. Assets about $10,000; liabilities unknown, but not quite as large as assets. They were successors of W. A. Bonner, the leading Hardware dealer in this place for many years.

Syracuse, N. Y.—Confessions of judgment have been filed in the county clerk's office by John Hamm, Jr., the stove and tinware dealer at No. 212 East Washington Street. Upon these executions were issued and the store closed.

Westerlo, N. Y.—Hiram K. Jones, the owner of a grocery and Hardware store, has made a general assignment to Ansel C. Requa, for the benefit of creditors.

Westminster, Md.—J. Q. Stitely, a dealer in farming implements, machinery, wagons, etc., has made an assignment.

Burglaries in Hardware Stores.

Cabery, Ill. — McKenney & Goodman, cutlery taken.

Cooper, Tex.—J. F. Henlee, pistols and ammunition.

Greensburg, Pa.—Boetz Bros., revolvers taken.

Kankakee, Ill.—Whitham Sisters, $50.

Lincoln, Neb.—Humphrey Bros., $250.

Luray, Va. — T. W. Berry, Hardware, store burglarized and quantity of goods stolen.

Orwigsburg, Pa.—J. H. Long, $125.

Scranton, Pa. — George Felton & Bro., $300.

Spencer, W. Va.—H. F. Goff, cutlery and revolvers.

Tamora, Neb.—Calder & Calder, $50.

Grand Rapids, Mich.—A. Van Bree, razors, knives, etc.

Wyandotte, Mich.—Macy Bros., $100.

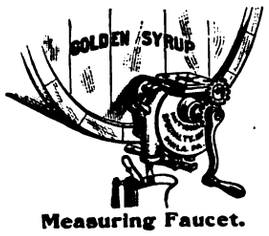
Recent Fires.

Asbury Park, N. J.—J. D. Newlin, Hardware, destroyed by fire, at a loss of $1500; insured.

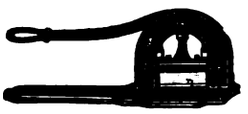
Denton, Tex.—Joe Hall, Hardware, etc., at Argyle, destroyed by fire.

Fort Branch, Ind.—Walter's Hardware store, destroyed by fire. Also S. Gillespie's farm implement store.

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Measuring Faucet.



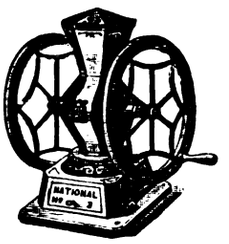
Tobacco Cutter.

We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

NATIONAL SPECIALTY MFG. CO.

Lehigh Ave. and Third St. - PHILADELPHIA, PA.



No. 3 Mill.



No. 1 Mill.

A First-class Hamburg Firm

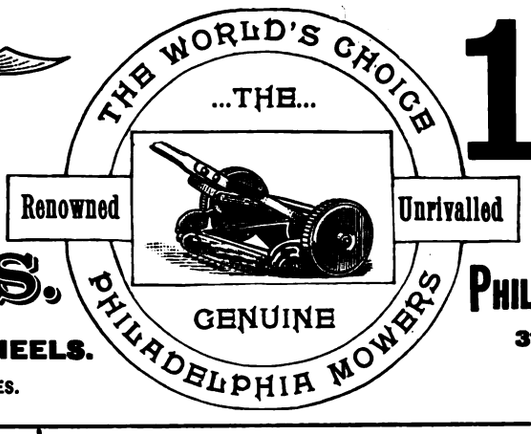
Of wholesale dealers and agents in household goods, specialty enameled ware, with a large staff of agents all over the country, and doing a large trade with the Hamburg export firms, is open for the *import* of American household machines and similar goods; no bicycles. First-class bank references. . . .

Apply to "FOREIGN," care "HARDWARE," No. 143 Chambers Street, New York.

HIGH GRADE LAWN MOWERS.

8½, 7, 8, 9¼, 10 INCH WHEELS.

SEND FOR CATALOGUE AND PRICES.



10 STYLES OF OPEN CYLINDER MOWERS.

INCLUDING OUR STYLE A ALL STEEL MOWER.

PHILAD'A LAWN MOWER CO.

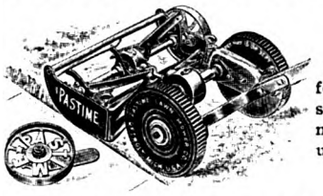
3107 and 3109 Chestnut St.,

PHILADELPHIA, PA., U. S. A.



PASTIME LAWN MOWER and TRIMMER.

IMPROVED 1898 MODEL.



This front cut mower trims to within ⅛-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

SEND FOR CIRCULAR AND PRICES.

Pastime Lawn Mower Co.,

We have the Best Wood Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

Give You Your Money's Worth.

Coldwell Lawn Mower Co., Newburgh, N. Y. [*Lawn Mowers*]: We think HARDWARE is enterprising, pushing, up-to-date, so to speak, and has a certain amount of get-up-and-get spirit about it, combined with a certain flavor of "I give you your money's worth when you advertise with us," that we like it—not for fun or sentiment, but for real business, and so long as you continue thusly you can count on our continuance.

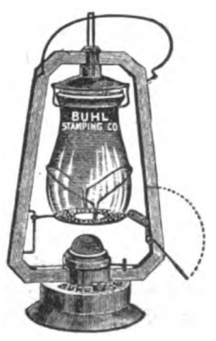
Kearney & Foot Co.

Manufacturers of the

100-102 Reade Street, New York.

BEST FILES AND RASPS IN THE MARKET.

SEND FOR CATALOGUE AND PRICES.



The Latest Improvements in Tubular Lanterns

ARE THE

No. 16, Buhl New Side Lever, - List, $7.50 per doz.

No. 100 Buhl Headlight, - - $30.00 per doz.



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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Albany, N. Y. — Self-Sharpening Plow Co. of Albany, to manufacture plows and agricultural instruments. Capital stock, $125,000. Directors: M. S. Northrup, Henry Norris, Charles La Dow, John J. Galloghy and George R. Meneely.

Decatur, Ill.—The Haworth & Sons Mfg. Co. has been incorporated by J. D. Haworth, C. D. Pattison and K. H. Roby to manufacture agricultural implements. Capital stock, $50,000.

Detroit, Mich.—Burr's Damascus Tool Works have been incorporated by J. H. Burr, J. W. Naller and H. E. Culverwell. Capital stock. $5000.

Kenton, Ohio.—The Champion Iron Fence Co. has been incorporated with a capital stock of $100,000.

Lynchburg, Va.—The Lynchburg Brass Mfg. Co. has been incorporated with John F. Slaughter, president; William Hurt, vice-president; E. C. Bayles, secretary-treasurer, and E. S. Whiting, general manager, for the purpose of manufacturing brass goods, etc. Capital stock, $15,000, with privilege of increasing to $25,000.

Los Angeles, Cal.—Bluebaugh Burner Co., formed to deal in oil and gasoline burners. Principal place of business, Los Angeles. Directors: Lugora A. Bluebaugh, San Fernando; W. C. Simpson, Redlands; Frank McEntee, Colton; J. S. Purdy, Chas. W. Allen, San Bernardino. Capital stock, $250,000, all subscribed.

Louisville, Ky.—Bridgeford & Co. have filed articles of incorporation. The incorporators are C. R. Adams, A. L. Adams and C. H. Sheild. The business to be conducted is the manufacture of stoves and hollowware. The capital stock is to be $75,000, with the privilege of increasing to $150,000. The above named incorporators are to constitute the first board of directors.

Marietta, Ga.—The Marietta Novelty Co. has been incorporated by W. E. Gilbert, H. W. Nicholas and R. N. Holland, to manufacture novelties. Capital stock, $2100.

Nashville, Tenn.—The Davidson Lock Co. has been incorporated by J. J. Davidson, J. D. Carson, D. B. Read and others.

New York, N. Y.—Bennett Combination Saw Tool Co., of New York city, to manufacture saws and saw tools. Directors: Richard Bennett, Raquette Lake; Edward R. Ladew, Joseph H. Ladew and Isaac L. H. Merikle, New York city.

New York, N. Y.—Edward J. Dewey Co., to manufacture lamps and gas fixtures. Capital stock, $3000. Directors: Edward J. Dewey, Francis W. Dewey and Thomas D. Carroll, of New York city.

Peoria, Ill.—Rhea-Thielens, implement manufacturers, will establish a branch house in Rockford.

Pioneer, Ohio.—H. M. Wood, formerly of Ransom Center, Mich., has started a new industry in the shape of a scythe snath factory in the Guy Smith building, on Elm Street.

Portland, Me.—Plumbers' Metallic Joint Co. has been organized by Maurice S. Ebeson, president; Thomas Davey, treasurer; for the purpose of manufacturing and dealing in pipe couplings, connections and plumbers' supplies. Capital stock, $500,000.

Improved Conditions.

Bridgeport, Conn.—The Bridgeport Machine Tool Co. is a very busy concern just now. Its factory is running thirteen hours a day, and yet it cannot keep up with the orders.

Cincinnati, Ohio.—The large building that has been fitted up by the Davis & Egan Machine Tool Co., across the street from the old plant, is now practically occupied by the concern. A heavy business is being done at present, mostly in foreign orders, and there are employed in the old plant 630 hands, and in the new there will be about 200. President Charles Davis has just established personally a branch at Vienna that is under the charge of F. D. H. Rieme, who came over to Cincinnati to learn the business before taking charge of the work. This makes eight branches of the company in Europe, as follows: London, Paris, Berlin, Copenhagen, Amsterdam, Moscow, Stockholm and Vienna. At all of these there are large stocks carried continually.

Indianapolis, Ind.—The new shop of the Indianapolis Stove Co. is now in operation, and it is one of the finest and best equipped in the country. The company enjoyed a good fall trade and the indications for future business are good. The factory is running full time with a full force of employes.

Springfield, Mass.—J. H. Sanderson, the treasurer of the Warner Mfg. Co., has rented a portion of the factory of B. B. Noyes & Co., and for the present will carry on there that branch of the business devoted to the manufacture of baby carriage Hardware. He has not yet reached a decision as to rebuilding on the site of the burned factory.

Walden, N. Y.—Col. Thomas W. Bradley, president of the New York Knife Co., at Walden, announces that the company will increase the scale of wages to all operators 10 per cent. on January 1.

Changes and Improvements.

Atlanta, Ind.—The Atlanta Steel & Tinplate Co. has decided to double the capacity of its plant.

Hartford, Conn.—The reorganization of the Sigourney Tool Co. has been effected, at a stockholders' meeting, by adding the names of J. H. Cooke, of Brooklyn, and Judge J. H. White, of Hartford, to the board of directors. The newly elected officers are J. H. Cooke, president and treasurer; F. D. Taylor, secretary; F. P. Reynolds, assistant treasurer. The company is very busy, having large orders ahead. It is running full time, employing more men than at any time since its organization.

Peoria, Ill.—The Hearst Corn Planter Mfg. Co., plant purchased by the Peru Plow & Wheel Co., which will remove the plant to La Salle, and manufacture the implements there.

Piqua, Ohio.—The Piqua Mfg. & Handle Co., finding its plant on West High Street inadequate to the growing business, have decided to erect another building. The several sheds directly west of the office of the company have been removed, and here is where the new structure will stand. The building will be three stories high, and will be constructed of wood and covered with corrugated iron. It will be 36x100 feet. According to the contract the building is to be completed and ready for occupancy inside of four weeks.

Quincy, Ill.—The contemplated improvements to be made to the plant of the Collins Plow Co., mention of which was made some time since, have begun. The roof of the old building on the corner of Twelfth and Hampshire Streets is being raised and another story added. The improvement is figured to cost about $1300. This concern is doing a big business. The need of more room indicates that fact.

Rochester, N. Y.—Another big trust, to be known as the American Woodworking Machinery Co., has been formed. It will control fourteen concerns, manufacturing seven-eighths of the wood-working machinery of the country. A member said that the object of the consolidation is to prevent the cutting of prices, which has interfered greatly with the business. Prices will not be increased, but manufacturers will be enabled to purchase machinery at a much lower price. In the combine are Rowley & Hermance, the Williamsport Machine Co., the Lehman Machine Co., Young Bros., Levi Houston, of Montgomery; Goodell & Walters, Philadelphia; Glencoe Machine Co., Brooklyn, N. Y.; Hoyt Bros., Aurora, Ill.; Globe Machine Co., Chicago; Fague & Co., Cincinnati; E. & B. Hayes Machinery Co., Oshkosh, Wis.; Frank H. Clement Co., of this city; C. B. Rogers Co., Norwich, and the Milwaukee Sander Co., of Green Bay, Wis.

Recent Embarrassments.

Union Bridge, Md.—The Indian Garden Mfg. Co., of manufacturers of door knobs, emery wheels and insulators, have made an assignment to E. O. Weant, trustee. The assets and liabilities are each about $3000.

Recent Fires.

Niagara Falls, N. Y.—Fire again visited the Dobble Foundry & Machine Shops on the Portage Road recently. The fire was not extensive, but it burned for two hours before the firemen could extinguish it. The flames, which were started by an overheated stove, burned beneath the floor and were very hard to reach. The damage is fully covered by insurance.

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THE BANNER

OIL HEATERS

Will take the chill off a room in a few minutes.



No Smoke, No Odor, or Chimney.

The same this year as in previous years.

A perfect success then, and a perfect success now.

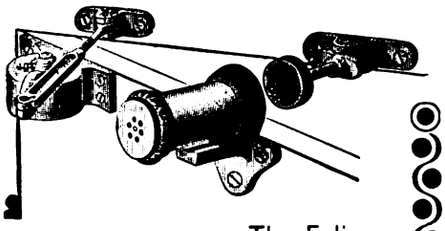
2 feet 3 inches high.

Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

MADE BY

New York. Boston. Chicago. **Plume & Atwood Mfg. Co.,** FACTORIES. Waterbury and Thomaston, Conn.

Not an experiment.



The Eclipse Door Check and Spring has been in use for years, and in all parts of the world, and is giving satisfaction everywhere. It is not an experiment, but has stood the test of time. The Hardwareman should get his profit at this season of the year by selling this noiseless door-closing device. It is easy to apply, easy to keep in order, and it is profitable to the dealer. Send for booklet with reduced prices for this season.

Sargent & Co., Manufacturers,
New York; and New Haven, Conn.

"Copperized" c. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

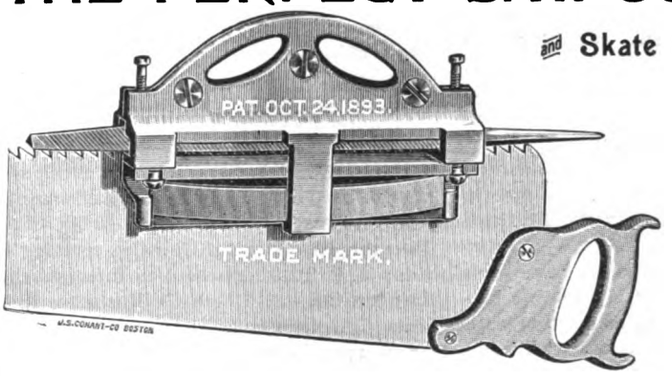
Hot & Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

THE PERFECT SAW JOINTER

and Skate Sharpener.



Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

Hastings & De Baun,

HARDWARE MANUFACTURERS' AGENTS,

124 Chambers St., New York.

NEW YORK OFFICE OF

THE PHOENIX HARDWARE MFG. CO.
MASON & PARKER. J. B. TATEM & SON.
THE BARNES TOOL CO. E. LOUD MFG. CO.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

A. N. JACOB, 491-493 Broadway, NEW YORK.

GEO. F. TAYLOR'S SONS,

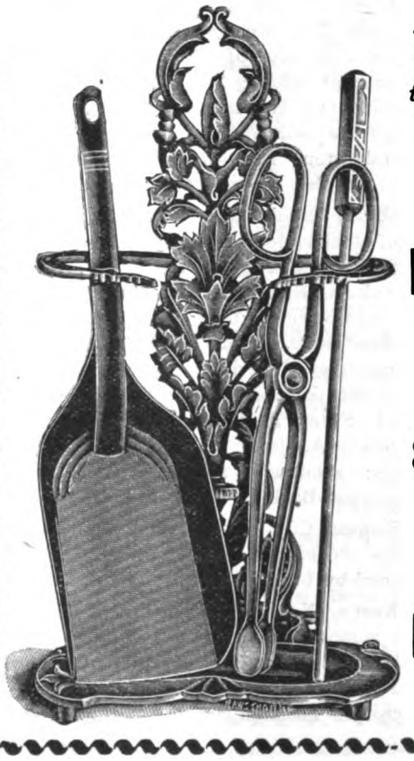
80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

ALSO

BONE BLACK

For Tempering, Coloring and Filtering Purposes.



THESE may seem hot subjects for this season, but it is the time to talk about them.

Kitchen Sets,

FIRE IRON STANDS,

Fire Pokers,

STOVE LID LIFTERS

We have a large line and our prices are low. . . .

Logan & Strobridge Iron Co.,

NEW BRIGHTON, PA.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Albany, N. Y.—There has been incorporated the Monty Mfg. Co., of New York city, with a capital stock of $100,000, to manufacture bicycle specialties. The directors are William N. Arnory, John Beverley Robinson, Richard C. Voth and Campbell E. Lock, of New York city.

Baltimore, Md.—The Tribune Bicycle Co. has been incorporated, with a capital of $5000, by William M. Lerch, Conway W. Sams, A. A. Foreman, John J. McElroy and Harry J. Hush. The firm will open a place of business on West Fayette Street. It will handle the line of bicycles handled formerly by William H. Cole & Sons.

Chicago, Ill. — O'Connell Griffiths Mfg. Co. has been incorporated by W. Irving Osborne, M. H. Guerrin and J. W. Egan to manufacture bicycles, etc. Capital stock, $7500.

Chicago, Ill.—American Chainless Wheel Co. Capital stock, $100,000. Manufacture bicycles and Hardware specialties.

Colorado Springs, Col.—The Colorado Cycle & Supply Co., new firm, will open a modern bicycle warehouse in the De Graff block.

Cordele, Ga.—Arrangements have been completed for the erection of a bicycle factory and variety works in connection with an iron foundry in Cordele. Work will commence shortly.

Hartford, Conn.—The Cycle Supply Co. has been incorporated by D. J. Post, C. H. Veeder and H. W. Lester. Capital stock, $2000.

Le Sueur Centre, Minn.—C. H. Collins & Co., bicycles, Hardware, sporting goods, etc.; new firm have commenced business.

Live Oak, Fla. — Barkley & Groover, drugs, will add bicycles.

Marion, Ind.—Thad Butler will establish bicycle works, and will manufacture a wheel to be known as the Butler.

Mason City, Iowa.—Joe W. Konvalipka will commence the manufacture of bicycles.

Peoria, Ill.—Patee Bicycle Co. has been incorporated by Fred. Patee, H. A. Simpson and Charles. F. Vail, to manufacture bicycles. Capital stock, $15,000.

Reading, Pa.—John Wanamaker will establish an agency in this city to sell the Wanamaker bicycles.

Sayre, Pa.—The capital stock for the new bicycle manufactory at Sayre will be $200,000. The following gentlemen constitute the committee for the organization of the enterprise, viz.: C. S. Maurice, O. L. Haverly, Athens; R. J. Purcell, Robert Lockhart and A. L. Wickert, of Bethlehem; H. J. Baldwin, F. E. Lyford, of Waverly, and W. T. Goodnow, of Sayre.

Sheboygan, Wis.—John G. Riedel, furniture dealer, has taken the agency for the Imperial bicycle, a high grade wheel; also for the Arabian, Progress and Imperial. Jr.

Sheboygan, Wis —Weigand & Fairweather have opened up bicycle livery and repair shop in the Wagner building, No. 827 North Eighth Street. They will have the 1898 chainless wheel for rent.

St. Paul, Minn.—The C. F. Smith Cycle Co. have opened a jobbing house.

Toledo, Ohio. — Officers of the National Bicycle Sundry Co., a concern recently incorporated, have been elected as follows: President, D. V. R. Manley; secretary-treasurer, E. P. Hubbell; superintendent, J. E. Bancroft; manager, A. Rosenfelt.

Walkerton, Ind.—Work on the Cotton building is being rapidly pushed forward for the new bicycle factory which, it is expected, will shortly be ready to commence operations.

Toledo, Ohio.—H. J. Young, formerly of the Kirk-Young Mfg. Co., will soon launch another bicycle manufacturing enterprise on the market.

Weiser, Idaho.—Opp & Davis, bicycles, Hardware, sporting goods, etc., have opened new store.

Changes and Improvements.

Chicago, Ill.—The Turnbull & Cullerton Lath Co. have certified to a change of name to the Vim Bicycle Co.

Decatur, Ill.—Decatur Gun Co., sporting goods; M. P. Thackeray sold his interest.

Denver, Col.—A. Lillyblade Furniture & Carpet Co., furniture, bicycles, etc., Nos. 1717 to 1723 Lawrence Street, selling out old stock, preparatory to removal to Nos. 1625 to 1631 Arapahoe Street.

East Brookfield, Mass.—Walter Peters, bicycles, will move his business to the Riverside block.

Freehold, N. J.—The A. A. Zimmerman Bicycle Mfg. Co., plant purchased by a stock company, of which A. A. Zimmerman is president; Wm. McDermott, vice-president; J. H. Stokes, secretary and treasurer. Capital stock, $50,000.

Galveston, Tex.—Glover, Toebelman & Co., bicycles, reported to have sold out.

Grand Rapids, Mich.—The Cycloid Cycle Co., stockholders held annual meeting recently, and elected the following directors: Frank A. Simonds, Chauncey H. Fisher, James Cooper, William A. Jarvis, Anthony Vidro, J. C. Simonds and Benjamin Beal. A meeting of the directors was then held, and officers were elected as follows: president, Frank A. Simonds; vice-president, William A. Jarvis; treasurer, J. C. Simonds; secretary and general manager, Benjamin Beal.

Kansas City, Mo.—Atherton & Maedel, bicycle repairers, reported to have been succeeded by L. A. Maedel.

Keene, N. H.—The Trinity Cycle Mfg. Co. is moving its plant to this city. It will take until the middle of November before the machinery is all transferred to the new factory. The company has a number of orders on hand, and this will prevent it from moving the plant all at once.

Leadville, Colo. — Kyle-Lanphier Cycle Co., reported to have dissolved partnership.

Louisville, Ky.—R. F. Maxwell, local manager of the Indiana Bicycle Co. in this city, announces that his company would close up the branch house here about November 19th on account of the reduction in the price of wheels and the vast competition of cheap wheels now on the market. The Waverley Co. has decided to close up all of its branch houses and in future make all sales direct from the factory by letter.

Miamisburg, Ohio.—C. W. Dodds, sporting goods, etc., sold to Andrews Bros.

Newark, N. J.—Warwick & Stockton Co., manufacturers of bicycle supplies, reported to have been succeeded by Charles S. Stockton.

New Haven, Conn.—Hadley & Parmelee, bicycles, reported to have dissolved partnership.

Washington, D. C.—Jones & Burr, bicycle dealers, No. 513 Ninth Street, N. W., dissolved by mutual consent, R. R. Burr retiring. All accounts owing to and owed by said firm should be paid to and will be paid by R. C. Jones.

Winston, N. C.—M. P. Taylor, Jr. & Co., bicycles, etc., have removed to the old National Bank building.

Worcester, Mass.—Trinity Cycle Mfg. Co., moved to Keene, N. H.

Recent Embarrassments.

Bloomington, Ill.—S. E. Haggard & Co., dealers in farm machinery and bicycles, have made an assignment to C. M. Rayburn. The liabilities are about $6000; assets, $14,000.

Buffalo, N. Y.—Seyfang, Prentiss & Co., bicycle manufacturers; Charles H. Avery appointed receiver. Dissatisfaction with the conduct of the business is given as the cause. The assets, it is said, are double the amount of liabilities.

Buffalo, N. Y.—Sheriff Lamy has seized the plant of the Martin & Gibson Mfg. Co., on an execution secured by the People's Bank on a note for $5538.96. The plant is one of the largest devoted to bicycle making in this city, and the failure of the firm caused a stir. The leading wheel made at the factory was the Kensington. The firm have a store on Main Street for retail business. The company hold a chattel mortgage on the store. The last statement of the company showed this condition: Capital stock, $60,000; paid-up stock, $38,000; debts, $36,000; assets, $74,000.

Buffalo, N. Y.—The Superior Cycle Mfg. Co., bicycles, reported to have appointed a receiver.

Providence, R. I.—Walter J. Taylor, bicycles, etc., reported to have made an assignment.

Recent Fires.

Cohoes, N. Y.—Albert Tanner, sporting goods, etc., destroyed by fire; insured.

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NEW DEPARTURE CYCLOMETER.



Non-corrosive.

Challenges the World for

SIMPLICITY,
DURABILITY,
ACCURACY.

Don't fail to list it--you'll surely need it.

Electrotypes ready--furnished free.

JOHN H. GRAHAM & CO.,
113 Chambers St., New York.

STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.

"A Box of Ammunition for the Battle of Economy."



These two Outfits, the "Fireside" and "Economy" Cobbler are GREAT and POPULAR sellers,—just the thing for the times. Send for list and prices of our FULL LINE OF COBBLERS' SETS, "Buckeye" Iron Lasts and Stands and "Plymouth Rock" Halfsoles.

For Sale by all up-to-date Hardware Dealers.

THE ROOT BROS. CO.,
Originators and Sole Mfrs. Plymouth, Ohio.



COVERT MFG. CO.,
WEST TROY, N. Y.

Derby Snap,

With Plated, Rust Proof and Guarded Spring.

"The latest and best."

For sale by Jobbers at Manfrs. prices.



THE BURR PATENT STEEL

Safety Lift Block



A Perfect Self-Locking Rope Tackle Block.

Runs as freely as an ordinary rope tackle block.
Holds more securely than a chain block.
Locks instantly and does not cut the rope.
Allows the load to be lowered safely and slowly, the operator using only one hand.
Cannot stick nor jam when the load is to be lowered.

"I have tested the Burr Self-locking Steel Tackle Block and find it the most practical, quick and reliable Safety lift I know of."
J. C. DEBES,
Supt. of the C. & G. Cooper Co.,
Mt. Vernon, O.

Adopted by the Penna. R.R. Co.

Send for circulars and prices.

. . THE . .
BURR MANUFACTURING CO.,
823 Society for Savings Bldg.,
Cleveland, Ohio, U. S. A.

Headquarters
FOR
ELECTRIC and PORTABLE
Watchman's Clocks.
Lowest Prices. Latest Improvements.
PATENTS 1888-1896.



THE "ALERT."

E. O. HAUSBURG, 41 Maiden Lane, New York

ALUMINUM SIGN LETTERS AND FIGURES, 7 STYLES, 36 SIZES.

Complete stock always on hand. Exclusive manufacturers and originators of the only Interchangeable Script Sign Letter. A fine line of House Numbers, Name and Door Plates, and Street Signs. Aluminum Trade Checks, Aluminum Bicycle Chain Guards, Aluminum Castings. We challenge comparison for promptness, quality, and prices. Illustrated Catalogue on application.

ALUMINUM SIGN & NOVELTY CO., 174 W. Locust St., COLUMBUS, OHIO.

5,000

Dealers in the United States & Canada sell Houchin's Specialties.

If you do not, send for illustrated Price List.

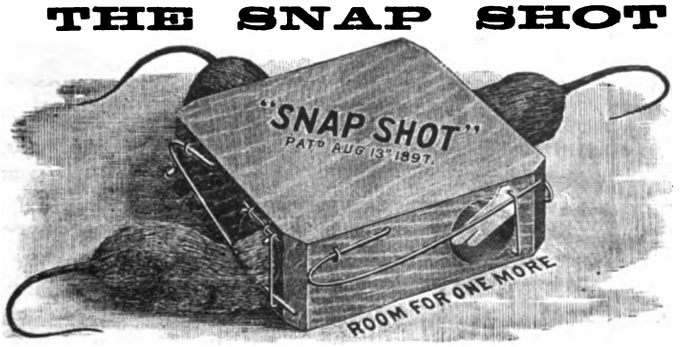
T. W. HOUCHIN,
67-69 Park Pl.,
New York, U. S. A.

HOUCHIN'S

POPULAR SPECIALTIES

Consist of Wax Tapers and Torches for Lighting Gas, Alcohol Stoves, 20 Styles, Gas Heaters and curling Iron Heaters, & Insect Powder Guns and Bellows, &c

THE SNAP SHOT MOUSE TRAP.



PATENT ALLOWED AUGUST 13, 1897.

The greatest improvement in Mouse Traps of the century.

SIMPLE, STRONG, SALABLE AND SELF-SETTING.

It kills the mice without mutilation.

Two-Hole Trap to Retail at Five Cents.
Four-Hole Trap to Retail at Ten Cents.

SAMPLES SENT FREE TO JOBBERS ON REQUEST.

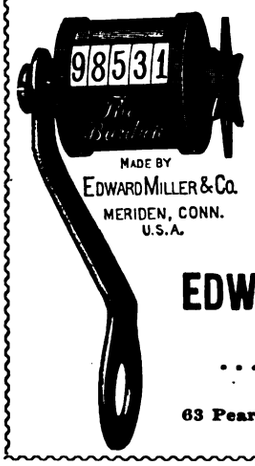
Sales Agents, ALLERTON, CLARKE CO.,
No. 79 Reade Street, New York.

Export Agent, C. B. CORWIN,
No. 15 Whitehall Street, New York.

SOLE MANUFACTURERS, THE SPECIALTY NOVELTY CO., Lancaster, Pa., U. S. A.

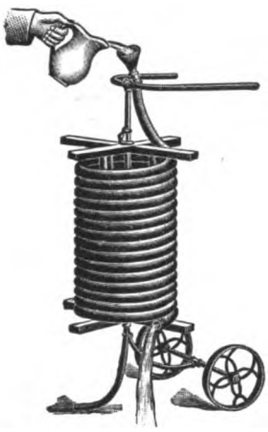
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Weight 1 Ounce.
10,000 Miles and Repeat.
New Principle. Reliable. Best.
Dust Proof. Water Proof.
1898 GOODS.
MILLER'S A1 LAMP.
EVERLIT LAMP.
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EDWARD MILLER & CO.,
Factories and General Office,
... MERIDEN, CONN. ...
STORES:
63 Pearl St., Boston, Mass., and
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IT EXPLAINS
Why it is
Superior to all other
Hose Reels. This
The Hartzell
Self-Draining Hose Reel
will carry more hose,
it will **drain, preserve** and
greatly increase
the **durability** of **Hose.**

Patented January 5, 1897.
Others applied for.

It is a beautiful ornament for a lawn. It is convenient, light, strong. It will please your customers as it saves money. For prices and Sample Reels, address

The Hartzell Novelty Works, (Sole owners and man'f'rs) ALLIANCE, OHIO.



LACLEDE & HERCULES BATTERIES

For Door Bells, Telephones, and Annunciators.

WARRANTED stronger and longer lived than any other Sal-Amoniac Battery made. . . . . .

MADE ONLY BY

PERU ELECTRIC MFG. CO.,
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ALSO MAKERS OF
ELECTRICAL PORCELAIN
OF ALL KINDS

◆ Send for Catalogue. ◆

SHOOT BLUE ROCKS.

For Sale by all Jobbers.

Foreign Trade Supplied Direct or Through Exporters.

The Cleveland Target Co.,
Cleveland, Ohio.

To Bicycle Riders.

WE MAKE OUR TUBE
OF FIFTY CARBON STEEL

Because a Tube like this of our Is just as strong as a Tube like this of

.50% CARBON STEEL

.25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted] and TWENTY-FIVE CARBON Steel will last only so long [redacted]

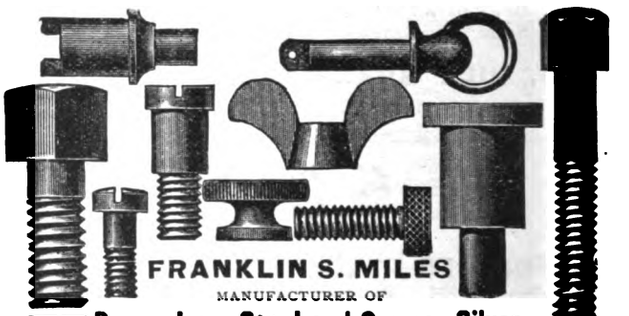
NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory corroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.



FRANKLIN S. MILES
MANUFACTURER OF
Brass, Iron, Steel and German Silver SCREWS.
All kinds of Special Screws.
205 QUARRY ST. - - PHILADELPHIA, PA.

"BROUGHT US MANY PAYING CUSTOMERS."

Defiance Bicycle Co., Defiance, Ohio. [*Bicycles*]: We are much pleased with the results obtained from our advertisement in HARDWARE during the past season. It has brought us many paying customers, and we feel that the money paid you was well invested.

"USEFUL AS AN ADVERTISING MEDIUM."

Smith & Egge Mfg. Co., Bridgeport, Conn. [*Traps, Locks, Chains, Pulleys, etc.*]: We have found your paper very useful as an advertising medium.

"LIKED 'HARDWARE' FROM THE START."

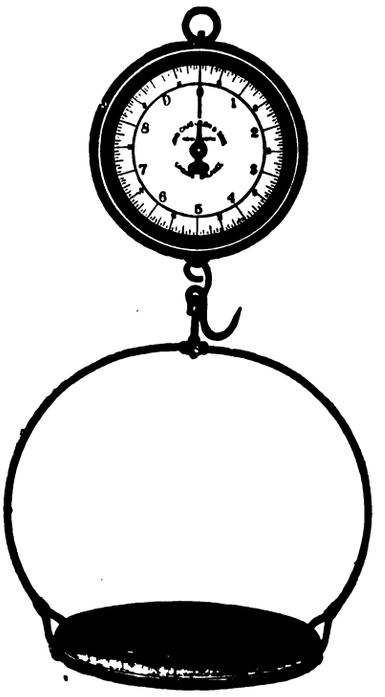
Gibbs Mfg. Co., Canton, Ohio. [*Hardware Specialties*]: We liked HARDWARE from the start, and have no reason to think otherwise now.

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CHATILLON SPRING SCALES.

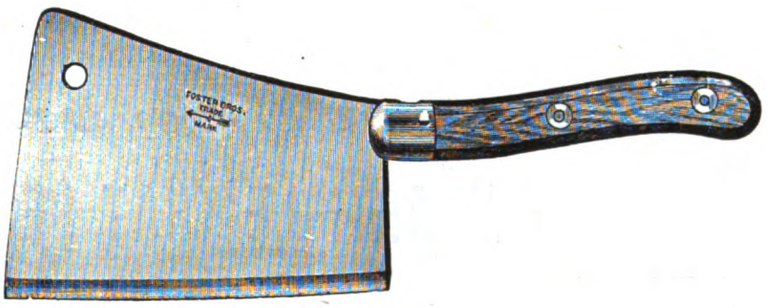
For more than **sixty years** we have carried on the business of making **Spring Scales,** and have made it OUR SPECIALTY.

All our Scales are warranted to weigh accurately and to be perfect in workmanship.



Our experience in the business, together with our unequaled facilities for manufacturing, enables us to produce a superior article, and thus to maintain the well-known reputation of **Chatillon's Spring Scales** as above that of other makes.

FOSTER BROS.' BUTCHER KNIVES, CLEAVERS, STEELS, &c.



These Tools are recognized in the Markets, Packing Houses and Abbatoirs throughout the United States as the standard of excellence, quality being the first consideration. We carry in stock every style and size of Knives, Cleavers and Steels used in cutting meat; also knives for kitchen use in Hotels, Restaurants and for domestic purposes.

FRIEDERICH DICK'S MAGNET DIAMOND STEELS.



By careful workmanship and the use of a special steel in their manufacture THEY HAVE BECOME FAMOUS THROUGHOUT THE WORLD.

PHOENIX KNIFE CO.'S POCKET KNIVES.



Finest quality American Pocket Cutlery in large variety—Knives that are good sellers and will give satisfaction to the user.

JOHN CHATILLON & SONS,

ESTABLISHED 1835.

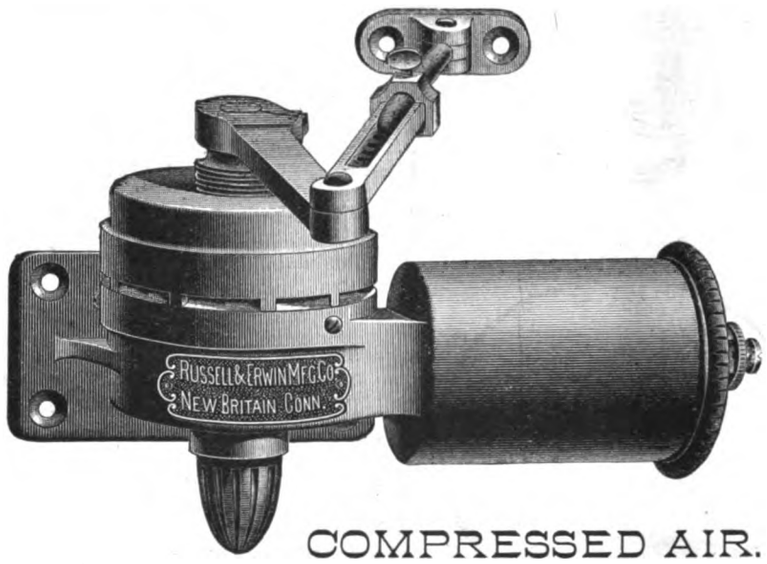
85 to 93 Cliff St. and 12 Jacob St., - - NEW YORK CITY.

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TEMPORA MUTANTUR ET NOS MUTAMUR IN ILLIS.

GUARANTEED TO DO ITS WORK PERFECTLY

COLUMBIA PNEUMATIC DOOR CHECK AND SPRING.



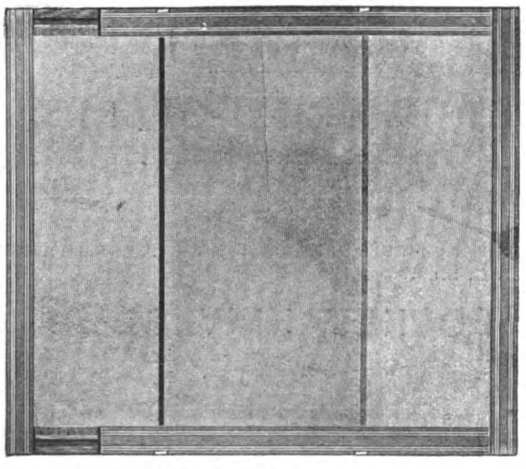
Simple in Construction.
Readily Applied.
Easily Regulated.
Powerful in Action.
Neat in Appearance.

COMPRESSED AIR. NO LEAKAGE.

Russell & Erwin Manufacturing Co.,

NEW BRITAIN, CONN. NEW YORK. PHILADELPHIA. CHICAGO. BALTIMORE. LONDON.

THE BEST BARGAIN IS THE ARTICLE THAT SELLS BEST!



FLYER SCREENS STAY TOGETHER
AND EVERY SCREEN WORKS WELL

Should you conclude that you want *Value* for your money you are invited to investigate PHILLIPS SCREENS.

Low prices are nice, but it's still nicer to get value for your money.

Don't get so crazy for that low price (that inside price that no one else gets) that you lose sight of what you are paying for.

Many who stop to consider that they are buying Screen Goods to sell again and who find it pays to please their customers prefer Phillips goods because

PHILLIPS SCREENS ARE RELIABLE.

There may be

"A HOT TIME IN THE OLD TOWN TO-NIGHT"

but you seldom get more value than you pay for in silver, wheat or screens. Nevertheless,

PHILLIPS PRICES ARE LOWEST, values considered.

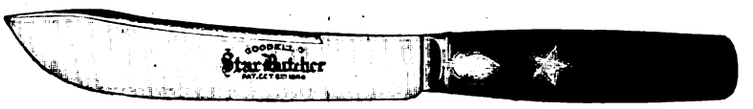
Send for our new Catalogue.

THE A. J. PHILLIPS CO., Fenton, Mich.

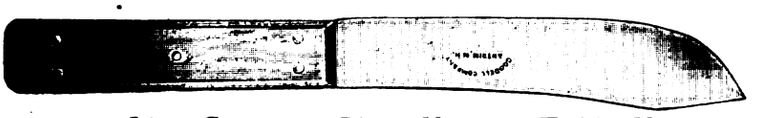
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Goodell Company, Antrim, N. H.

THE BEST



BUTCHER KNIVES



ON EARTH.

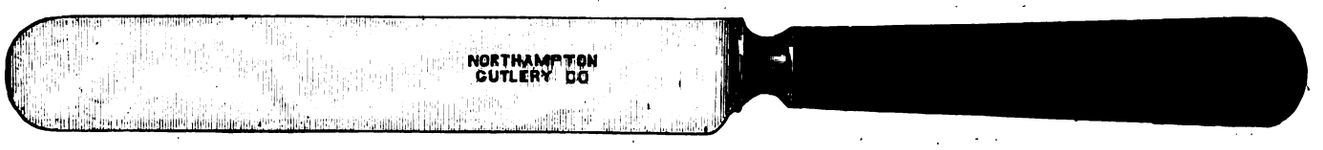
Also Carvers, Shoe Knives, Table Knives and Forks in great variety.

. . . CATALOGUE FREE . . .

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77 Chambers St., New York.	516 Boston Block, Minneapolis.	23 Davis St., San Francisco.	216 Northern Office Bldg., Chicago.	32 Hopkins Place, Baltimore.

NORTHAMPTON CUTLERY COMPANY,



Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office.
Northampton, Mass.

New York Office and Salesroom
96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears



ACKNOWLEDGED THE BEST

Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

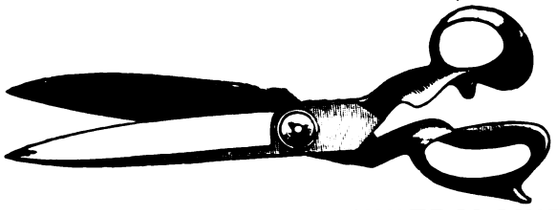
R. HEINISCH'S SONS CO.,

New York Office 90 Chambers Street. NEWARK N. J.



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Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

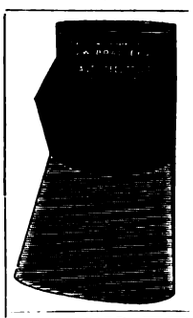
YOU SHOULD HANDLE THOSE MADE BY

J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .



Extra Quality Axes.

Wide Bit,	Long Island,
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SUPERIOR QUALITY

CAST STEEL TOOLS

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5 00
2 oz. bottles per gro. $8.00
OVAL, BEVELED, TRILATERAL, HEXAGON.
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.

Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO., GENEVA, OHIO.

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LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS


Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
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What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
——Orders Solicited.——
Prices and terms quoted promptly on application.

Seed's Reversible Self-Cleaning ... WATER FILTERS
BRASS, NICKEL PLATED.
No. A1 Per dozen, $4.00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
21 and 23 Centre Street, - - NEW YORK.

. . . HEARTILY RECOMMEND "HARDWARE."
E. T. Barnum, Detroit, Mich. [*Wire Goods*]: We heartily recommend HARDWARE to those desirous of reaching the largest number of dealers.

EACH YEAR RECEIVED BETTER RESULTS.
Standard Tool Co., Cleveland, Ohio. [Tools]: During the five years we have had an advertisement in HARDWARE we have each year received better results.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced Hardware salesman, acquainted with buyers in the cabinet and furniture trades of New York and vicinity, to sell goods on salary or commission. German preferred. Address, stating age, experience, references and salary expected. J. N. T., care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

BOY wanted, about 15 years old; must have had experience in a retail Hardware store, be quick and bright; address by letter only, stating age, references, and salary to start. Address HARDWARE STORE, No. 2105½ Third Avenue, New York City.

WANTED—First-class traveling salesman to canvass manufacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

SEVEN years with one of the largest and best knwon wholesale Hardware house on Chambers Street, N.Y. At present have one-half interest in retail Hardware and tool business. Will dispose of this January 1st, and will be open to an engagement as buyer, manager or any position from stock to bookkeeping. Make an offer if you are looking for an all round man. Age 27, references. TAYLOR, care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

DIE MAKER, A No. 1 practical die and tool maker, well up in all latest improved dies and tools for novelty and general Hardware, dies for blanking, drawing, stamping, forging, etc. for all sheet metals, as brass, iron, steel and aluminum. Well up in modern shop methods to increase production, also automatic dies, feeds, stops, etc. Can design and develop ideas, ten years' experience in best shops in Massachusetts and Connecticut. Age 30. Can accept January 1st, '98. Best references as to ability and character. Address, DIE MAKER, care HARDWARE, No. 143 Chambers Street, New York.

WANTED, by a practical die and tool maker. a position as foreman or superintendent, familiar with typewriter, sewing machine, clock and bicycle work; has had experience at the bench, drawing board, and superintendent. Can handle men with good advantage and good results. Age 30. Can accept January 1st, '98. Best references. Address CONN, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A HARDWARE salesman desires a position in a first-class wholesale or retail Hardware store. Six years' experience. Good references. Will go anywhere. Address A. J. Y., Box 208, Yarmouth, Me.

A FIRST class stove pattern maker wishes position in pattern shop-fast worker neat and artistic. Address GOOD MAN, care Hardware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, North Carolina.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

WITH a long experience, I can take charge of the manufacture of Hardware articles. Improve upon the article if necessary, or reduce the actual cost to its utmost. I am well known to handle men very satisfactorily. Addresss H. K., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

WANTED by a practical mechanic, with a good education and 17 years experience in working iron and steel, managing help, buying of mil supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., care HARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport Conn.

POSITION by a young man. Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. Box 1464, Boston.

Side Line Wanted.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L., care Forest City House, Cleveland, Ohio.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference. Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

Side Line Offered.

LINE of legitimate Hardware wanted by traveling man of 12 years' experience with established trade through Iowa, Minnesota and Wisconsin. A No. 1 references. Address G. 100, care HARDWARE, No. 143 Chambers Street, New York.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Geprgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

WE want salesmen visiting Hardware and harness trade to sell our new line of chain goods and sheet steel snaps. Great sellers! State present line; references, territory. IRA F. WHITE & SON No. 76 Park Place, New York.

WE offer good side lines to those calling on Hardware, harness, carriage manufacturers and department stores, both wholesale and retail. Address FERNALD MFG. CO., North East, Pa.

For Sale.

A PATENT for, manufacture and sell a sash lock, that will lock one or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

MUST be sold before the holidays, clean stock of Hardware with fine cash trade. Capital required $2500 to $3000. This is a Klondike for some one. P. O. Box 90, Castile, N. Y.

A good chance for business. $2,000 will buy stock and fixtures of a well established Hardware store, in a live and growing town of about 5000, in New Jersey, and numerous small towns around. Good business can be done. Proprietor has other business and cannot give his entire attention to it. Address C. B., care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S. M. care HARDWARE, No. 143 Chambers Street, New York.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address BOX 99, care HARDWARE, No. 143 Chambers Street, New York.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Attention Agents.

AGENTS make $5.00 to $10.00 per day selling Aluminum Sign Letters, Door Plates, House Numbers, Street Signs, Aluminum Bicycle Chain Guards and Novelties; exclusive agency; write quick. J. W. BARNETT, Manager, Columbus, Ohio.

Agency Wanted.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to buy a half interest in a well established Hardware and Builders' Supply Business. Must be a paying business. Address W. C. S., care HARDWARE, No. 143 Chambers Street, New York.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10,000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



For Christmas "ERIE" ALUMINUM,
The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.

DUNBAR BROTHERS
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE
SHEET STEEL STEEL BEAM
BRISTOL CONN



BOOMER STEEL RANGE,

With High Closet.

Rolling Front. Six Holes. Stationary or Portable Reservoir.

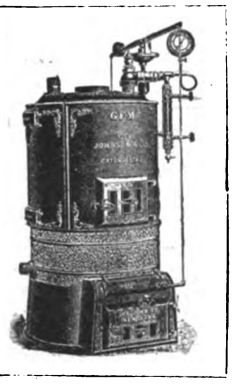
Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the

CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street MASSILLON, OHIO



GEM and ECONOMIST HEATERS.

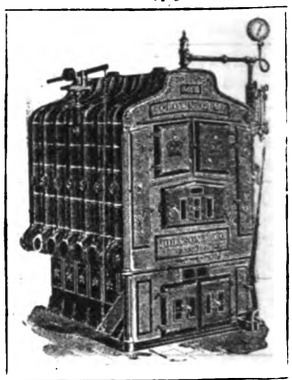
FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

.... MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.





"Has Our Esteemed Favor."

Edward Darby & Sons, Philadelphia, Pa. [*Wire Goods*]: For the past few years we have been in HARDWARE, and we beg to remind you that it has our esteemed favor, and will recommend the same to anyone desirous of a good, useful, common-sense trade journal such as HARDWARE is.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters.....
Railroad.....
} 40&12½%

Ammunition—

CAPS, PERCUSSION—@ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.25&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 32 and 38 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.. ...$2.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....25&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—@ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&2%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags @ bag.....$1.22
Drop Shot, sizes smaller than B, 5-lb bags, @ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, @ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, @ bag.....$ .35
Buck Shot, 25-lb bags, @ bag...$1.47
Buck Shot, 5-lb bags, @ bag.....$ .35
Chilled Shot, 25-lb bags, @ bag.$1.50
Chilled Shot, 5-lb bags @ bag..$ .35
Dust Shot, 25-lb bags, @ bag....$2.00
Dust Shot, 5-lb bags, @ bag.....$ .50

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Ducking, kegs ..6¼ lb 2.25
(For 1000 lb lots 10% discount.)
Blasting and Mining, A...25 lb 2.25
Blasting and Mining, B. 25 lb 1.50
Laflin & Rand W.-A. Smokeless:
Sing'e Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black.....41.00
Drum, equal in bulk to 100 lb, best black.....82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks @ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montrose, Galien, Mich.:
Camp's Success.....@ doz. $2.50
Galien Safety.....@ doz. $2.75
Hartman's Pivot.....@ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....@ doz. $2.25
Western.....@ doz. $2.75

Anti-Rattlers—

Fernald, Wire....@ doz. pairs. .75
Burton's, No. 2....@ doz. pairs. .75
Burton's, with bolt holder, No. 1.....@ doz. pairs.$1.00

Anvils—

American "Horse-Shoe"...2½@2¾c
Armitage's Mouse Hole.....2½@2¾c
Eagle Anvils, @ lb 9c.....15&15&5%
Hay-Budden, Wrought.... 2½@2¾c
Peter Wright's.....9½@10½c
Samson.....2½@2¾c
Trenton.....2½@2¾c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $15.00..20%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Ball hangers' bit.....40%
Brace twist drills for metals. 30&5@40&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.80%
Nobles Double Spur, No. 32.70&10%
No. 10 Extension Lip.....40%
No. K Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits, 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $24.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....30%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, @ doz. $60....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2, $45.....30%
Swan's.....40@40&10%

GIMLET BITS—
Diamond @ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, @ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....50%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&10@70%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@70%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....50&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, @ gr.....$3 0@$3.25
H'ld Scratch @ gr.....$3.75@$4.00
Pat. Peg @ gr.....35@35c
Sewing, Com.....@ gro., 85c@$1.00
Should. Peg @ gr.....$1.35@$1.45
Shouldered Brad, @ gr...$1.50@$1.65
Socket Scratch @ doz...$1.00@$1.10
Stanley Rule & Level:
Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Seats—

Aiken's Awls and Tools:
No. 10 @ doz. $7.50; No. 20, @ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 42, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $13; 3, $13; 4, $9; 5, $7.....60%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $13; 4, $12; 5, $15.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $2.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 @ dozen net.

Axes—

First quality, best brands.$5.00@5.25
First quality, other " $4.50@4.75
Beveled add 50c @ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $15.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 33⅓&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....30%

Balances—

Chat llon's:
No. 2000 20 30
@ doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....@ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....35%
Tinned, each, $7.50.....30%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....60%
New Departure.....45@60%

COW—
Common Wrought.....50&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....25&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&10%
Seymour Smith & Sons..@ doz. $4. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 @ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, @ doz. $15.00.....45%
Ives' @ doz. $20.00.40&10@40&10&5%

Blind Adjusters—

Domestic..@ doz. $2..33⅓@33⅓&10%
Excelsior..@ doz. $10.00.....
N rth's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy @ gro. sets.....$5.50
Gorhams Improved Star Tenon @ gro. $1.00.....25%
Merriman's Brass Lever @ gr. $15.00
Merriman's Iron Lever @ gr...$9.00
Millers Falls @ set $1.00.....15&10%
Security Gravity @ gr.....$9.00
Van Sand's.....65&10%
Washburn's Plate @ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Spetaining.....30%
Pat. Automatic.....35%
Perfect Safety.....35%
Stowell Novelty Block.....65&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—
Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&t@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%.
Wr't Sunk Flush, Stanley's list50&10@5(&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—
Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct '84..5&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—
American Screw Co.:
Bay State, Plain list Feb. 26, '96.75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, 83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—
Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—
Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—
Enterprise.....20%

Borers, Tap—
Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

	Without Augers. Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls		7.50 15&10%
Other Machines	2.25	2.50.....net
Phillips' Patent with Augers	7.00	$2.75
Snell's. Rice's Pat.	2.50	

Bow Pins—
1¾ inch, ₱ gro.....$4.50@$5.00
inch, ₱ gro.....$5.00@$5.50

Boxes, Mail—
Heller's.....40&5%

Braces—
Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....7.@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114¼.....60&10%
No. 208¼@214¼.....60%
Lancaster Mach. & Knife Works.40%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—
Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—
Standard list.....85@85&10%

Bull Rings—
Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—
Beatty's.....40&5@40&10%
Bradley's.....25@30%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—
Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—
Ordinary Black Handle.....25%

Butt and Rabbet Gauges—
Stanley's.....25&10%

Butts—

BRASS—
Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.4.@40&10%

CAST IRON—
Loose Joint.....75@75&5%
Loose Joint, Japanned....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—
List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow.....
Fast Joint, Narrow.....
Fast Joint, Light Narrrow....
Fast Joint, Broad.....
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..
} 75%

Can Openers—
American.....₱ gross $1.75@$1.90
Champion, ₱ doz. $2.00.....50%
Columbian.....₱ gro. $14.40
Dunlap's Iron Handle, No. 3 ₱ gr. $12.00...35%
Dunlap's Sardine Scissors, ₱ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ₱ gr. $8.00; ₱ doz.75c
No. 5, Iron Handle.₱ gr....$2.00@2 25
Sardine Scissors...₱ doz. $2.0 @2 25
Sprague, No. 1, $2 00; No. 2, $2.25; No. 3, $2 50.....70%
Universal, ₱ doz. $3.00.....55&5%
World's Best, ₱ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—
Cotton.....2@25%
Horse and Curry.....20@25%
Wool.....20@35%

Carpet Stretchers—
Bullard's.....33⅓%
Cast Iron Steel Points, ₱ doz.75@suc
Cast Steel, Polished....₱ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₱ doz. $1.75

Carpet Sweepers—
Bissell's:
Gold Medal....
Grand.....
Grand Rapids.
Hall.....
Prize.....
Premier.....
Superior.....
Cyco-Bearing
..₱ doz. $24.00
..₱ doz. $36.00
..₱ doz. $22.00
..₱ doz. $60.00
..₱ doz. $24.00
..₱ doz. $24.00
..₱ doz. $24.00
Crown Jewel, japan finish, ₱ doz $19.00
Crown Jewel, nickel, ₱ doz. $31.00
Furniture Protector, Japan.....₱ doz. $34.00
Furniture Protector, Nickel.....₱ doz. $27.00
"Standard A," Jap...₱ doz. $20.00
"Standard A," Nick..₱ doz. $22.00
Housewife's Delight..₱ doz. $15.00
Parlor Queen, Jap...₱ doz. $24.00
Parlor Queen, Nickel, ₱ doz. $27.00
Standard.....₱ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—
Baby.....₱ doz. $2.50
Child's.....₱ doz. $3.00
Little Jewel.....₱ doz. $7 00
Little Queen.....₱ doz. $4.00
Miasee.....₱ doz. $9.00
Quantity rebates on application.

Casters—
Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phœnix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—
Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—
American.....60&10%

Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—
American Coil, Ass'n cask prices.
3-16 ¼ 5-16 ⅜ 7-16 ½ ⅝ ¾
$5.50 4.10 3.10 2.75 2.70 2.50 2.35 2.25
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains. 60&10&10@70&5%

Cherry Stoners—
Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—
Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10 &5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—
Bax.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₱ lb 14c@16c
C. E. Jennings & Co.....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to $
Tanged Firmers'.....50@50&10%

Chucks—
Beach Pat....each $8.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00....35%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $8.50; No. 2, $12.50.25%

Clamps—
Adjustable, Cincinnati.....35&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati.....35&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co. 40&10%
R. I. Tool Co.'s Wrought Iron....35%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—
Challenge Shank.....₱ doz. $3.25
Star Shank.....₱ doz. $3.50
Star Socket.....₱ doz. $3.75

Clips—
Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—
Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—
Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....65%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15

Coopers' Tools—
Bradley's.....20%
Barton's.....30@30&5%
Beatty's.....33⅓%
L. & L. J. White.....30@30&5%
Sandusky Tool Co.....35&10@30&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—
Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson.....₱ doz $10.00
Williamson's.....40%

Corn Hooks—
Kretzinger Cut-Easy, ₱ doz. $3.00 net

Corn Knives and Cutters—
Bradley's.....10%
Wadsworth's.....35@35&10%

Counter Sinks—
Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—
Sargent's List.....20%
Dixon's
Eclipse.....₱ gro. $2.75
Emerald.....₱ gro. 5.00
Oriole.....₱ gro. 5.00
Rainbow.....₱ gro. 2.51
Solid.....₱ gro. 7.50

Curry Combs—
Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₱ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—
Lane's.....33⅓&5%

Diggers—
See Post Hole, etc.

Dog Collars—
Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—
Bardsley's.....30%
Eclipse.....60@60&10%
Unity F. G.....60%

Door Openers, Electric—
Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—
Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₱ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₱ doz $1.2 @1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—
Sargent's List.....60%

Drawing Knives—
Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix.....
New Haven.....
P. S. & W.....
Witherby.....
} 75& 10& 5%
Watrous.....30@30&10%
L. & L. J. White.....30&5@35%
Wilkinson's Folding.....35@35&5%

Drills and Drill Stocks—
Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No. 12, ₱ doz.....$18.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....40@40&5

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Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓&5%
Ratchet, Ingersoll's.....35%
Ratchet, Merrill's.....30@30&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet Parker's.....40%
Ratchet, Whitney's.....30&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓&5%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₱ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₱ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓&5%
Spiral.....₱ gro. $4.25@4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₱ drop. less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼ 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..80c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5(c. ea., less 5 %
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₱ ℔, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$3.00 ea., less 50%
Spark Coils, 10 pt $3.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 30c. ₱ ℔. less 50%
Tube, Speaking, $31.00 ₱ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₱ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₱ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $3.50 each, less 50%
Zincs, Leclanche...04c. ea., less 5%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	FLOUR, FF.
Kegs, ₱ ℔..4½c	5c	8c	
½ kegs, ₱ ℔.4½c	5¼c	8¼c	
¼ kegs, ₱ ℔. 5c	5½c	8½c	
10 ℔ cans, 10 in case.... 6c	6½c	5½c	
10 ℔ cans, less than 10.. 10c	10c	8c	

Enameline—

No. 4, ₱ gro.....$4.50
No. 6, ₱ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₱ doz. $3.00
Popes.....₱ doz. $3.00
Wilkinson's.....₱ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 60&10%
Bohren's Pat. Rubber Ball.....25%
Funn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's Boss Tin Key....60%
John Sommer's Chicago Cork lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₱ doz. $36.00.....40%
Lane's ₱ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over)	5.50	6.50	7.00
Dairy Pails, 14 qt.	3.80	3.80	4.80
Fire Pails, 14 qt., stenciled "fire	3.40		
Fruit Bowls	1.30	1.70	2.00
Keelers, 11½ inch	2.80	2.80	3.10
Milk Pans	1.50	2.00	2.20
Mats, 8½ inch (for table use)	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.,)	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.80
Prison Pails, 16 qt. (with cover)	6.50		
Pitchers, 10¼ in. high..	4.00	4.70	5.20
Peck Measures	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt.	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10¼ in., (detachable covers).....	3.80	4.50	5.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4.00	4.50
Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2.10
" (13½ inch)	1.70	2.80	2.70
Wash Basins, 15 in.. (or Wash Bowls.....	2.30	2 90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1. No. 2. No. 3. No. 4.
$4.00 $2.50 $1.50 $1.00 ₱ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (50c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No	0	1	2	3	4
₱ doz.	$3.00	$3.75	$4.25	$4.75	$5.25
No	5	6	7	8	
₱ doz.	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₱ doz. $2.50
In lots of 3 doz.....₱ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓%
Clapboard.....20%
Marking, Mortise, &c..50&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ₱ doz $3.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₱ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₱ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₱ gr. $1.50
Assorted 2 and 3.....₱ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets:
Assorted 1, 2 and 3.....₱ gr. $3.00
Assorted 2 and 3.....₱ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....45@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....30%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₱ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Wooding.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....50&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail..40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..25&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 ℔...₱ ℔ 40c
3 to 5 ℔.....₱ ℔ 35c } 75@80%
Over 5 ℔.....₱ ℔ 30c
Wilkinson's Smiths....9½c@10c₱ ℔

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%
Door or Thumb:

Nos.	0	1	2	3	4
Per doz.	$ .90	1.00	1.08	1.35	1.50

50&10@60&10%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.63
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....60&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60&10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....₱ gr. $2.25@2.50
Auger, large.....₱ gr. $3.00@3.25
Auger, Douglass', Pat. ₱ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33/4.....40%
Auger, Swan's, Pat. ₱ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₱ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₱ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₱ gr. $2.25@2.50
Firmer Chisel, Apple large ₱ gr. $2.75@3.00
Firmer Chisel, Hickory ass'd ₱ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₱ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₱ gr. $2 00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....50&25
Hoe, Rake and Fork60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₱ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $36.00.....60&10&10%
Cronk's Steel cov'd Loose Axle. 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6(&5%
New Model.....4 &10%
Parlor, Standard.....4(&10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $18.00, ₱ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 65c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....(0&10%
Climax.....55%
Interstate.....60&15%
Magic.....50%
Matchless Covered.....60&10%
Wild West.....50%
Zenith.....55%
Baggage Car Door.....33⅓%
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....50%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $35.00; No. 4, $55.00.60&10&2½%
Warner's Pat.....20&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₱ doz.....40&10%
Wrought.....85&10@85&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&7½%

Hoe Shears—
Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T. . 75@75&5%
Rolled Blind Hinges Nos. 83 and 84 50&10@50&10&5%
Rolled Plate, Rolled Raised .... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb., 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb. 2½c; 14 to 20 in., ₩ lb. 2½c; 22 to 36 in., ₩ lb. 2 c
Strap and T ..... 75@75&5%

SPRING HINGES—
Acme ..... 30@10%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts 40%
Gem ..... 30&10%
Zell's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $13.00
Oxford ..... 30&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single .. 70&10%
Japanned Surface, Double . 60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 35%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense .. ₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E. .. ₩ doz $7.80 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State .. ₩ doz $4.90 .. 60@60&10%
Reed's Latch and Hinges .. ₩ doz $12.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3. 60&10@60&10 &5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 60&10%
Nos. 40 and 50 ..... 30%
Huffer 55%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13. 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 60&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 60&.0&5%
Champion Gravity Locking, No. 75 ..... 60&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5. 60&10%
Tip Pattern, Nos. 1, 3 and 5. 60&10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 103 ..... 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80&10%
Noiseless, Nos 50, 60, 65 and 65. 80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 060, 45 and 5½ .. 50&5%
Steam Boat Gravity Locking, No. 10 ..... 80&10&5%
Stenger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.80 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy .. ₩ doz. $4.50 net
Cotton ..... 80&12½%
Dunlap's Boys', Ladies', Toy 30%
Garden ..... 75&20%
Mortar ..... 75&25%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe ..... ₩ doz. $3.75 net
Planter's ..... 80&15%
Texas Cut-Easy ..... ₩ doz. $4.35 net
Warren Hoe ..... 60&10%

HYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes .. $3.00@$3.25
Ringers ..... ₩ doz. 50@55c
Perfect Rings ..... ₩ gro. $7.00@$7.50
Perfect Ringers ..... ₩ doz. 80c

Hollow Ware—

IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware .. 70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 40&10%
White-Ware ..... 35&10%

STOVE HOLLOW-WARE:—
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans .... 62½@65%
Maslin Kettles .... 75&5@75&10&5%
Tinned Boilers and Saucepans .. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co .... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—

BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list .. 60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 60&10%
Chandelier 70%
Clothes Line, Sargent's list .. 60&10%
Coat and Hat, Sargent's list .. 50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list .... 50@60&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.35
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme .. 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4½c

Horse Nails—

	Nos.	6	7	8	9	10
A. C.		25c	25c	22c	21c	21c.

40&10%
American, all sizes, 9½@10c .... net
Ausable ..... 28c 28c 26c 24c 23c. 40&10&5%
Anchor ..... 28c 21c 20c 19c 18c 40%
C. S. K 25c 23c 22c 21c. 21c 40%
Capewell ... 19c 18c 17c 16c 15c. 10&5%
Champlain .. 28c 26c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 16c 15c 14c. 20&10&5%
Empire Bronzed 10c
Essex ..... 28c 23c 25c 24c 23c. 40&10@50%
Lyra .... 9½c 9½c 9½c 9½c 9½c., net
Maud S ..... 25c 23c 22c 21c. 21c 50&10&5%

	Nos.	6	7	8	9	10
Northw't'n.		25c	23c	22c	21c	20c.

25@25&5%
Putnam ..... 23c 21c 20c 19c 18c 25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan ..... 23c 21c 20c 19c 18c 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 50&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 60&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick .... ₩ gr $3.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20 .. 25%
No. 34 ..... ₩ doz. $15.00 .. 25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.80 .. 20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 35%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives .. 25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel .. ₩ doz. $1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '85. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 42%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 200 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.50
No. 250 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L ..... 70&10%
Styles A., and E ..... 60&10%
Styles, D., D. O. W., M., S., T. 70&10%
Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 35%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co. Philadelphia Lawn Sprinkler:

	No. 1.	No. 2.	No. 3.
₩ doz.	$12.00	$15.00	$24.00 .. 25%

Lemon Squeezers—
Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40 ..... 20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.25; 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $3.00
Jennings' Star ... ₩ doz. $1.80@$2.00
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.50@$3.50
Porc. Lined, Wood .... ₩ doz. $6.00 80&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 35&10%
Iron Bench, new design .... 35&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's 50; Cotton Chalk, 50 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 35%
Samson, Cotton, No. 4, $2; No. 4½, $2.50 ..... 10%
Silver Lake, Braided, No. 0, $2.00; No. 1, $2.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 35%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &C.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 50&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co ... 60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 20&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 28 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 95 ..... 30%
Eagle Lock Co ..... 45&2%
Charles Parker Co ..... 45&2%
Romer's 25%
Stoddard Lock Co ..... 30@33⅓%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Dietz 60%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&2%
Gem, Corbin's ..... 40&2%
Romer's Nos. 0 to 21 ..... 40&5%
Scandinavian ..... 50&40@60&40&10%
Smith & Egge Bicycle 25%
Wrought Iron ..... 70@70%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 25%
Eagle 25%

Mallets—
Sargent's List
Hickory ..... 50@25&10%
Lignumvitæ ..... 50@25&10%
Raw-Hide ..... 40&10%

Matlocks—
Regular list ..... 70@70&10%

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Meat Cutters—

American 30%
Nos. 1 2 3 4 5
Each. $6 $7 $10 $25 $60 - $60

Beef Shavers (Enterprise) 20%
Chadborn's Smoked Beef Cutter, ℔ doz $60.00
Dixon's ..... ℔ doz 33⅓%
Nos. 1 2 3 4
$14 $17 $19 $30
Enterprise 25%
Nos. 10 12 20 40
Each. $3 $6.50 $4 $6 $15
Hales Pattern ℔ doz. ..... 70@70&5%
Nos. 11 12 13
$37 $33 $45
Home No. 1.. ℔ doz $36 ..... 60%
Little Giant ..... 50&10%
Nos. 205 210 212 220 222
$25 $43 $44 $72 $68
Miles' Challenge ℔ doz. ..45@45&10%
Nos. 1 2 3
$33 $30 $40
Perfection ..... net
Woodruff's ℔ doz. 33⅓%
Nos. 100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ℔ lb..25c
No Name ..... ℔ lb..18c
Mystic ..... ℔ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise 20%

Mop Wringers—

Matchless (Canton, O.), ℔ doz. $12.00

Nails—

WIRE AND CUT NAILS—

See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1893 ..... 87½%
Grand Crossing Tack Co. List:
Wire Brads 80%
Wire Nails 80%

PICTURE—

Brass Head. Combination list, 50& 10%
Brass Head. Sargent's list, 70&10@ 70&10&5%
Niles' Patent 40%
Porcelain Head, Comb'n list.. 40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze 10%
China 25%
Fire Gilt 10%
Plain 40%

Nail Pullers—

Black Hawk, per doz $9.00
Giant, No. 1, ℔ doz $18.00; No. 1½, $16.50; No. 2, $15.00 ..... 30&5%
Lightning ..... ℔ doz $18.00, 20%
National 40%
Pelican ..... ℔ doz $9.00, 15&10%
Scranton No. 2 ..... ℔ doz. $10.00
Scranton No. 3 ..... ℔ doz. $9.00

Nail Sets—

Buck Bros. 27½%
Cannon's Diam'd Point ℔ gr. $12, 25%
Dunlap's 20%
Humason's ..... 50&10%
Hunters' Cup Point Knurled ..... ℔ gro. $10.00
Hunters' Cup Point, Plain ..... ℔ gro. $9.00
Round, assorted ..... ℔ gr. $3.00@$3.25
Square ..... ℔ gr. $4.00@$4.25

Nippers—

Acme 50%
Smith's Cutting 50%
Todd's Cutting 50%

Nut Crackers—

Acme, Japanned, ℔ gross $30.00.. 40%
Turner & Seymour Mfg. Co. 50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex. off list $6.30
Hot Pressed, Square, off list.. $6.30
Hex. off list $7.20
Tapped 50%

Oilers—

Brass and Copper ..... 50&10%
Cushman & Denison's:
Pocket Oilers ..... ℔ doz. $1.55
Star Pocket Oilers ..... .75
Draper's:
Brass ..... 70&10%
Steel ..... 70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list ..... 50&10%
"Paragon," Brass ..... 50&10@60%
"Paragon," Zinc ..... 70@70&10%
Tower & Lyon Bicycle 25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust 75%
Zinc and Tin ..... 70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ℔ lb 60
Rosy Red 60
Extra Green Paper Wrapper, ℔ lb 50
No. 1 40
No. 2 30
Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2¾ to ⅝ at back, ½ to 5-16 edge ℔ lb:
Lily White 90
Rosy Red 90
Extra, same sizes as above 80
No. 1 70
No. 2 40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ℔ lb ..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
3x2, ℔ doz $13.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1½ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x½ to 1½, ℔ lb ..... .34
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston" 60%
"Excelsior" Self-Vulcanizing, per lb 70c 40%
Boston "Phoenix" Red Sheet, per lb ..... 50c. net
Extra ..... 60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing ..... 9c@10c ℔ lb
Cotton Packing ..... 14c@15c ℔ lb
Italian Packing ..... 12c@14c ℔ lb
Jute ..... 5c@7c ℔ lb
Russian Packing ..... 13c@14c ℔ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance ..... ℔ doz $4.50
Baldwin ..... ℔ doz 5.00
Bonanza ..... each 5.00
Daisy ..... ℔ doz 3.50
Dandy ..... each 7.50
Eureka, 1888 ..... each 16.00
Family Bay State ..... ℔ doz 12.00
Favorite ..... ℔ doz 5.00
Gold Medal ..... ℔ doz 4.00
Ideal ..... ℔ doz 4.00
Improved Bay State. ℔ dz.. $27@30.00
Little Star ..... ℔ doz 4.00
Monarch ..... ℔ doz 12.50
New Lightning ..... ℔ doz 5.50
Oriole ..... ℔ doz 4.00
Penn ..... ℔ doz 3.00
Perfection ..... ℔ doz 4.00
Pomona ..... ℔ doz 4.00
Reading, 72 ..... ℔ doz 4.00
Reading, 78 ..... ℔ doz 7.00
Rocking Table ..... ℔ doz 5.50
Scott's Pat. Rotary, ℔ doz $15.00, 20%
Turntable ..... ℔ doz 4.50
Victor ..... ℔ doz 12.50
Waverly ..... ℔ doz 3.75
White Mountain ..... ℔ doz 4.00

POTATO—

Antrim Combination .... ℔ doz 5.50
Hoosier ..... ℔ doz 12.50
Saratoga ..... ℔ doz 5.50
White Mountain ..... ℔ doz $4.50

Pencils—

Dixon's:
Carpenters' ..... ℔ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead ..... ℔ gro. 9.00
Lead ..... ℔ gro $4.50
Lumber ..... ℔ gro. 6.87
Mascot, Hexagon ..... ℔ gro. 8.38
Mascot, Round ..... ℔ gro. 8.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00 ..... 70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality 55%
Bench, Second Quality .... 60@60&10%
Fales Bench 25%
C. E. Jennings & Co. ..... 50&10%
Molding 50%

IRON PLANES—

Chaplin's Iron Planes ..... 50&10%
Davis's Iron Planes ..... 40@40&10%
Gage Tool Co.'s Self-Setting 35%
C. E. Jennings & Co., Iron ..... 5/ &10%
Meriden Mal. Iron Co.'s.. 40@40&10%
Sargent's ..... 60@60&10%
Siegley's:
Bench 40%
Combination, each ..... $4.50 net
Standard Tool Co. ..... 50@50&5%
Stanley Rule & Level Co.:
Bailey's.. 50&10&10@50&10&10&5%
Miscellaneous ..... 25&10%
Steer s Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle" ..... } 60&10@40%
Ohio ..... }
Sandusky ..... }
Buck Bros. 30%
Butcher's ..... $4.00@$5.25 to $
Hinsdale ..... 25&10%
C. E. Jennings & Co. ..... 25&10%
Stanley Rule & Level Co. ..... 50&10%
L. & I. J. White ..... 50&5@25%

Pliers and Nippers—

Button's ..... 70&10@70&10&5%
Carew's Pat. Wire Cutters 25%
Cronk's:
Button Pattern 70%
Gas Pliers, No. 100 ..... 40%
Stubb's Pat. Pliers 50%
Hall's Nippers, ℔ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00.... 40&10%
Hall's Pliers 70%
Humason & Beckley Mfg. Co. 50@50 &10%
Wm. Johnson's Gas Pliers 66⅔%
Morrill's Parallel, ℔ doz $12.00 30&5%
Smith's Side Cutting 25%
Stubs' 20%
Swiss Pliers 25%
P. S. & W. Cast Steel ..... 50@50&5%
P. S. & W. Tinners' Cutting Nippers ..... add 6% dis. 10%

Plumbs and Levels—

Cook's ..... 40&10&10%
Davis':
Inclinometers 20%
Iron Levels ..... 25&10%
Disston's 50%
Wm. Johnson's 75%
Plumb Bobs 40%
Pocket Levels ..... 70&10&10@75&10%
Stanley's ..... 75&10&10%
Stanley's Duplex ..... 25&10%
Wood's Extension Sight 33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods 25%
R. I. Tool Co., Handcuffs, $15.00 ℔ doz 10%
R. I. Tool Co., Leg Irons, $35.00 ℔ doz 10%
Tower & Lyon's 25%

Polish, Metal—

Prestoline Liquid, New List 40%
Prestoline Paste ..... 33⅓@40%

Polish, Stove—

Dixon's Plumbago ..... ℔ lb 8c
Joseph Dixon's ..... ℔ gro $5.75, 10%
Gem ..... ℔ gro $4.50, 10%
Lustro ..... ℔ gro $4.75
Rising Sun ..... ℔ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ℔ doz. $ .75; ℔ gr. $8.50 } 10@
1½ qt. ℔ doz. $ .85; ℔ gr. $9.00 } 15%
2 qt., ℔ doz. $1.15; ℔ gr. $12.00 }
Quincy Corn Popper, 1 qt., ℔ doz. $3.00; 2 qt., $4.00 ..... 33⅓%

Post Hole Diggers—

Ryan's ..... ℔ doz., $30.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears 33⅓%
Disston's Combined Pruning Hook and Saw ... ℔ doz $18.00, 25@25&10%
Disston's Pruning Hook ..... ℔ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel .... ℔ doz $3.50, 30%
Henry's Pruning Shears ℔ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools. 40%.
P. S. & W. Co.'s Shears 60%
Pruning Shears, Henry's Pat. ℔ doz ..... $3.50@$3.75
Waters Tree Pruners ..... 75&10%
Wheeler, M. & C. Co.'s Combination ..... ℔ doz $12.00, 25&10%

Pulleys

Awning ..... 60@60&10%
Axle ..... 60&10@60&10&10%
Brass Screw ..... 66⅔@70%
Ceiling ..... 50@10&60%
Clothes Line, Japanned..60@60&10%
Common Sense 60%
Dumb Waiter ..... 60@60&10%
Empire Sash Pulley 60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50 ..... 50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70 ..... 50%.
Hot House ..... 50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ℔ doz $12.00 ..... 40%
Side. Anti-Friction 50%
Shade Rack 45%
Upright ..... 60&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump $13.00
No. 3, Fig. 328, 3½ in. Shallow Well Pump $15.00
No. 5, Fig. 307, 3 in. Deep Well Pump $15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump $17.00
No. 14. Fig. 521, 3 in. Deep or Shallow Well Pump $15.00
No. 33, Fig. 523, 3 in Deep Well Pump $17.00
No. 56, Fig. 361, 3 in. Shallow Well Pump $14.00
No. 59, Fig. 333, 3½ in. Shallow Well Pump $17.00
No. 70. Fig. 333, 2½ in Deep Well Pump $15.00
No. 72, Fig. 333, 3 in. Deep Well Pump $15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump $16.00
No. 102, Fig. 448, 3 in. Lift Pump $10.00
No. 103, Fig. 448, 3½ in. Lift Pump $12.00
No. 128, Fig. 510, 3 in. Lift Pump $7.00
No. 131, Fig. 510, 3½ in. Lift Pump $8.50
No. 226, Fig. 339, Windmill Pump $12.50
No. 230, Fig. 402, Windmill Pump $18.50
No. 235, Fig. 403, Windmill Pump $14.50
No. 240, Fig. 406, Regulator Pump $30.00
No. 280 Fig. 484, Imperial Cyclone Pump $18.00
No. 265, Fig. 572, Cyclone Tank Force Pump $17.00
No. 267, Fig. 488, Geyser Tank Force Pump $17.00
No. 268, Fig. 513, Low Down Tank Force Pump $16.00
No. 302, Fig. 477, Spray Pump complete $11.50
No. 320. Fig. 492, Bucket Spray Pump $5.50
No. 330, Fig. 547, Knapsack Spray Pump $10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving 40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive ..... 50@5%
Check 55%
Spring ..... 50&5%
Springfield Socket 65%
Morrill's Universal 35%
Niagara Hollow 45%
Niagara Solid 55%
Rand's Centering Marking Tool.. 25%
Rice's Hand 15%
Saddlers' or Drive, good ℔ doz.. 60@65%
Spring, good quality, ℔ doz $1.70@1.80
Spring, Leach's Pat. 15
Tinners' Solid, P. S. & W. Co. ℔ doz $1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

Barn Door, Light, In. ½ ⅝ ¾
Per 100 feet $1.40 1.55 2.00
Barn Door, "None Better" No. 1, ℔ foot 2¾c
Barn Door, "None Better" No. 2, ℔ foot 3¼c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet..$1.60 2.00 2.50
Carrier Steel Rail, ℔ foot 4½c
Cronk's:
Competition ..... ℔ foot, 2¼c
Common ..... ℔ foot, 2¼c
Double Braced ..... ℔ foot, 2¾c
Lanes' O. N.T. ..... ℔ 100 ft. $3.40
Stowell's Wrought Steel 35%
Sliding Door, Bronsed Wr't Iron.. ℔ ft. 6½c
Sliding Door, Iron, Painted.... ℔ ft 2c
Sliding Door, Wr't Brass, 1½ in. ℔ lb, 35c ..... 60&10@40&5%
Terry's Steel Rail, ℔ foot 3½c
Victor Track Rail, 7c ℔ foot 60&10&2½%

Rakes—

Cast Steel, Association goods. 75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme ..... net ℔ doz. $4.00
Boss, Garden, 14 teeth, net ℔ doz. $2.60
Boss, Garden, 18 teeth, net ℔ doz. $2.75
Canton Lawn Rake... ℔ doz. $3.50
Crown Lawn, No. 1.... ℔ doz. $3.50
Hustler, No. 0 ..... ℔ doz. $3.50
Lawn Rake ..... ℔ doz. $4.75
Malleable ..... 70&10@75%
Oneida Lawn ..... doz.. $3.00
Peerless Socket and Shank.. 75&15%
Prize Bow-Brace ..... 75&15%
Queen City 33⅓%

Razors—

Electric ..... List net
J. R. Torrey Razor Co. 30%
Westenholm and Butcher, $10.00 to $ 10%

Registers—

Stowell's:
Japanned ..... 80&10%
Nickel-plated ..... 75&10%

HOT AIR—

Ferrosteel, Japanned ..... 80&10%
Ferrosteel, Nickelplated ..... 75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

American Screw Co.:
Bay State Rivets ..... 75&10%
Burrs 75%
Soft Steel 80%
Copper ..... 60&10&5@60&10&10%
Norway, list Feb. 26, '96 ..... 70%

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Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..$ doz. $1.00 net
Screw Stay.....& doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....$ lb 13 @14c
Medium, ¼ in. and larger.....$ lb 10 @12c
Common, ¼ in. and larger.....$ lb 8½@10c
Jute Rope.....$ lb 5½@6½c
Manila:
7-16 in. and larger.....$ lb 6 c
⅜ in.....$ lb 6½c
¼ and 5-16 in.....$ lb 7 c
Hay Rope, Med.....$ lb 6 c
Sisal, ¾ in.....$ lb 5½c
¼ and 5-16 in.....$ lb 6 c
7-16 in. & larger.....$ lb 5 c
Med. L'th Y'rn.....$ lb 4½c
Hay Rope.....$ lb 5 c

Rules—

Athol, Steel.....33⅓&5%
Boxwood..80&10&10&10@80&10&10&10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....$ lb 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, $ doz. $6.50
Nickel.....$ doz. $7.00
Common 4 to 10.....$ lb 2½@2½c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, $ doz.....$7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, $ doz. $4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.50
No E 55, plain polished, size 1, 2 or 3 without handles, $ doz. $4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, $ doz.....$8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, $ doz. $5.25
No. E 60, nickel-plated, size 4, with "best" handles, $ doz $9.50
No. E 60, nickel-plated, size 4, without handles, $ doz.....$6 80
No E 65, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.75
No E 65, plain polished, size 1, 2 or 3 without handles, $ doz. $4.75
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, $ doz.....$3.00
Self-heating.....$ doz $10.00, 20%
Self-heating, Tailors' $ doz $22.50, 25%
Sensible Nickel.....$ doz. $7.00
Sensible Pol.....$ doz $6.50
Sensible, Tailors'.....$ lb 3@3½c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....80@ [illegible]
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....$ lb 16c
Cable Laid Russia....$ lb 13½c@14c
Common.....$ lb 8½c@ 9c
Common Russia Sash.$ lb 12½c@13c
India Hemp Sash.....$ lb 9½c@10c
Jute, good quality.....$ lb 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....$ lb 30c
"Samson" Braided Drab, Cotton.....$ lb 35c
"Samson" Braided Italian Hemp.....$ lb 33c
"Samson" Braided Linen, $ lb 55c
Silver Lake:
A Quality, Drab..$ lb 55c. 35@40%
A Quality, White, $ lb 50c. 35@40%
B Quality, Drab, $ lb 35c.....15@15&7½%
B Quality, White $ lb 30c.....15@15&7½%
White Cotton Braided, $ lb.21c@23c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co.....60%
Hammond's Window Springs, A.....50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....$ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
O. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws.....25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....35&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

O. E. Jennings & Co.....20%
Red, Polished and Varnished...$ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..$ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. $ doz.....$6.00
Excelsior Saw Tools $ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....$ doz. $10.00
"Royal".....$ doz $6.00
Leach's.....33⅓&5%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $26.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, $ doz.....$4.75
Stillman's $ doz.....$1.00
Taintors Positive...$18.00 $ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, $ doz. $17.00@$18.00
Tea, No. 161.....$ doz. $5.75@$6.00
Union Platform Plain....$3.00@$3.10
Striped.....$3.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '92.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....$ doz., $3.00
Box, 2 Handle.....$ doz., $3.10@$4.00
Foot.....55&5@60&5%
Ship Common.....$ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension.....50&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&25%
Fancy Pine.....15%
Painted.....60&5%
Stained.....50&10%
Standard Oil.....35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....27½%
Champion.....40&10%
Disston's.....5@50&10
Pat. Excelsior.....5&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....60&10&10%
O. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
1s5 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits,....$ doz., 50@75c
Screw-Driver Bits, Parr's $ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 61, Varnished Handles.70&10%
No. 86.....75&10%
Tower & Lyon:
Champion.....33⅓&5%
"Handy" Ratchet.....25%
Williamson's:
Beauty, $ doz.....$1.00 } 40%
Gem, $ doz.....90c }
O.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....90%
Brass, Round Head.....85%
Bronze, Flat Head.....87½%
Bronze, Round Head.....85%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Drive Screws.....90%
Iron, Bright Flat Head.....90%
Iron, Br't R'd & Oval Head.....85%
Iron, Forged Flat Head.....90%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

Brass, Flat Head.....45%
Brass, Round Head.....40%
Iron, Flat Head.....45%
Iron, Round Head.....40%

BENCH, HAND, ETC.—

Bench, Iron, $ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech. $ doz $3.00@$3.20
Chair.....60&10%
Coach.....33⅓%
Hand Rail Am. Screw Co.....33⅓%
Hand Rail, H. & B. Mfg. Co.....30%
Hand Rail, Sargent's.....70@70&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's.....75%
Jack Screws, Stearns'.....40&10%
Lag Blunt Point, list Jan. 1, 1890, 75&20@30&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
O. E. Jennings & Co.....25%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....60&10%
Grass.....50&10%
Scythe Snaths.....50&10@60&10&5%

Seeders—

Raisin, Enterprise.....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, $ Set.....$2.25
Surrey, No. 9, $ Set.....$2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....50&10%
Ætna, Steel Nickeled.....70&10%
Barnard's Lamp Trim'rs.$ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10%
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears.....30&10@40%
Pruning, See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....60&10%
Tin Snips.....40%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1897.50&10@55&5%
Stowell's Anti-Friction.....30%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 15, 1885.....60&5%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@$3.40
Perkins Improved Snow.....$ lb 4c

MULE—

Add 50c $ keg to above prices.

OX, WROUGHT—

Ton lots.....$ lb 3c
1000 lb lots.....$ lb 3½c
500 lb lots.....$ lb 4c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....66⅔7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, $ gross, $10@11.50

Skate Sharpeners—

Eureka...$ doz. $1.75; $ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....$ gro. $15.00@$18.00
2 Knives.....$ gro. $30.0 @$37.00
Kraut Cutters.....50@50&10%
Woodrough & McParlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....30%
Cockeyes.....70&10%
Covert Mfg. Co.....45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....30%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
} 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓&
Wood.....₩ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Can. Stamp. Co's list. 75&10@30%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&2%
Solid Table and Tea, Can. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros. 40&10%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
12½ Rogers' German Silver...60&6%
25% Rogers' Nickel Silver....50&6%
Rogers' Silver Metal.....50&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.30&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated..
Steel and Iron..
} 75&10@75&1 &10

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₩ ℔.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....25%
Reece's New Screw Plates.... 25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '96.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
America , Tinned...90&2 @90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....8 %
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....70&15%
Chair Nails.....8 %
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2 00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks.₩ gr $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks...₩ gr. $4 50
Miniature Keg Tacks..66⅔&33⅓& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " 1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....3.@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@6 %
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1 55
2	$9.00	$1 55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33⅓&
Snips—"Clauss".....80%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓&
Prentiss'.....20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₩ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ₩ doz.....$2.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in , ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz.. .....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch ₩ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1 50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent .....7.@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3 3 and 3½.....₩ 100, $12.00
Shaw's:
Copper Finished.....8 &10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@7 &10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole..... 15%
Rare Rat.....4 @40&10%
Household.....₩ gr $10.00
Hotchkiss:
Metallic Mouse,.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross, $12.50
Mouse, Bonanza ...₩ doz 90c@$1.00
Mouse, Catch-'em-Alive ₩ doz $2.50,15%
Mouse, Delusion..... 40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire, ₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $13 50; No. 2 ₩ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00

FLY-

Balloon, ₩ doz $1 25.....₩ gr. $13 50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $3 75; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓&
Disston's:
Brick.....3 %
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....4 %
W. & McP. Plastering....25@25 & 1 %
Peace's Plastering.....25@25&5%
Richardson.....25@2 &10%
"Rose" Brick Plastering and Moulders.....3 @30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&1 %
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓&
Massey's Quick Action.....20&.20%
Merrill's.....30&15%
Millers Falls, Mechanics'...net@1 %
Moore's.....30%
Parker's.....20@25%
Oval slide.....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....7 &10%
Simpson's Adjustable.....5%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓&
Wentworth's.....85%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Ott's A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ₩ gross. $2.50@$12.00
American Whip Co.: List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $5.00 5 ft., $5.50; 5½ ft., $9.50; 6 ft. $10.50; 6½ ft., $12.00; 7 ft., $13.50 7½ ft., $15.00; 8 ft., 16.50.
Americus, 3s Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 ft., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $15.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 106, 6 ft.....$5.0
Hand-Made Stocked Java, No. 108.....5½ ft, $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....₩ doz $2 00@$7 50
True Grip, Raw Hide Center, 4½ ft. $6.00; 5 ft., $6.00; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.50; 7 ft. $9.00.

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

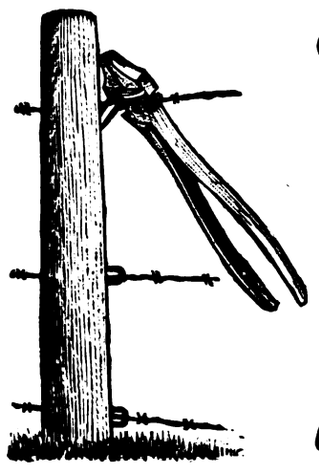
Window Stop Adjusters—

Taplin's "Perfection".....10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 85&1.@35&1' &1 %
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@8 &10%
Cop'd, Nos. 0 to 18, 75&10@7 &10&5%
Galv., Nos. 0 to 18, 75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ ℔.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ ℔.....4½c
Wire Clothes Lines, see Lines.

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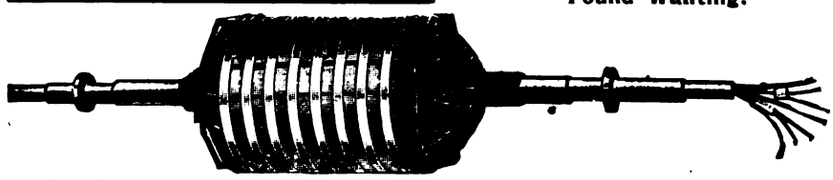
CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

BETTER THAN NEW. Having Been Tried and NOT Found Wanting.



GENERATORS, ARMATURES, DYNAMOS, MOTORS, COMMUTATORS, TRANSFORMERS **REPAIRED.**

Write us for Estimates on your work. | **We Pay the Freight One Way.**

The W. H. Elliott Electric Co., General Electrical Repairers. Fourteen Years' Practical Experience.

14, 16 and 18 Middle Street, Cleveland, Ohio, U. S. A.

"NO BETTER MEDIUM."

U. S. Mfg. Co., Fond du Lac, Wis. [*Cyclometers, Lamp Brackets.*]: Manufacturers of bicycles and bicycle sundries find their best customers among the Hardware trade. To reach this trade, we know of no better advertising medium than HARDWARE. Our advertising in HARDWARE has been of an effective character.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.20
Steel Bolting Wire Cloth.....80@55

Wire Rope—

List.
Cast-steel.....2½&2½&2% cash
Iron.....20&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....2%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Acme:
Bright.....60@60&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....60@60&10%
Aiken's Pocket (Bright)..$2 00@3.20
Alligator.....60@60&10%
Always Ready.....33⅓&5@40%
American Adjustable.....40@40&10%
Armstrong's.....44%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Leg Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....30%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894, 2%
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....39c
Linseed, City, Boiled, in barrels ₩ gallon.....41c
Out of Town on Spot..₩ gal.....39c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 38@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$28.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ℔.....5c
White Lead, American, in Oil, ₩ ℔.....5½@6c
White Lead, Foreign, in Oil, ₩ ℔ 8@8½c
Litharge, Kegs, ₩ ℔.....5½c
Zinc, American, Dry, ₩ ℔....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@——c
In machine bbls.....35@——c

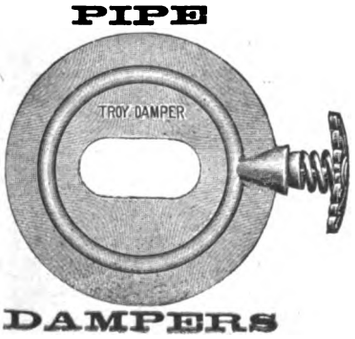
Dry Colors—

Blue, Chinese.....₩ ℔ 37 @40
Blue, Prussian.....₩ ℔ 30 @35
Blue, Ultramarine..₩ ℔ 8 @35
Sienna, Italian, burnt & powd red ₩ ℔ 3½@5 c
Sienna, Italian, raw & powdered...₩ ℔ 3 @4½c
Umber, Turkey, burnt.....₩ ℔ 2½@3½c
Umber, Turkey, raw.....₩ ℔ 2½@3 c
Green, Chrome, Common.....₩ ℔ 5 @12 c
Green, Paris, in bulk, ₩ ℔ 11½@12½c
Indian Red, American.....₩ ℔ 2 @3 c
Indian Red, English.....₩ ℔ 4½@8

Colors in Oil—

Black Coach Japan ₩ ℔..18½@20
Black Coach Japan, in Oil.....₩ ℔ 12 @18 c
Black Drop.....₩ ℔ 7 @10 c
Black Lampblack...₩ ℔ 20 @33 c
Black Lampblack, common.....₩ ℔ 7@15 c
Blue, Chinese.....₩ ℔ 35 @40 c
Blue, Prussian.....₩ ℔ 30 @40 c
Blue, Ultramarine..₩ ℔ 12 @18 c
Brown, Sienna, bur't ₩ ℔ 8 @12 c
Brown, Sienna, raw. ₩ ℔ 8 @12 c
Umber, burnt.....₩ ℔ 7 @10 c
Umber raw.....₩ ℔ 7 @10 c
Brown, Vandyke....₩ ℔ 7 @12 c

PIPE



DAMPERS



ALASKA, ALWAYS COLD.

STOVE LID LIFTERS,

POKERS, SHOVELS, FIRE SETS.

Patentees and Sole Manufacturers,

TROY NICKEL WORKS.

ALBANY, N. Y.

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Don't buy Christmas presents,

But become a subscriber to "HARDWARE," and get some of the valuable premiums offered in the following pages. ∴ ∴ ∴ ∴ ∴ ∴

Don't let your wife see this paper,

Because she'll probably insist upon your sending ten years' subscription in advance, to secure some of those premiums offered with "HARDWARE." ∴ ∴

Perhaps you can't come to New York,

But "HARDWARE" will bring New York to you, in the ensuing premium list. ∴ ∴ ∴ ∴

If you are still alive

And read, write, think, or act, you will find some very interesting and valuable premiums to "HARDWARE" in the following pages. ∴ ∴ ∴

And remember

That with all these premiums you get "HARDWARE" with its "Prices Current," its "Hardware Buyer's Directory," its Trade Review and multifarious other attractions. **It is absolutely indispensable to the intelligent Hardware dealer. . . .**

FOR ORDER BLANK SEE PAGE 62.

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"HARDWARE" GIVES THESE AWAY.

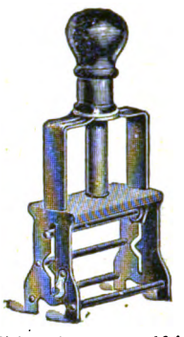
Send us $1.00 for a year's subscription and any one of the following articles designated by you, will be forwarded free of expense. This offer applies to new 1895 subscribers only. . . . . .



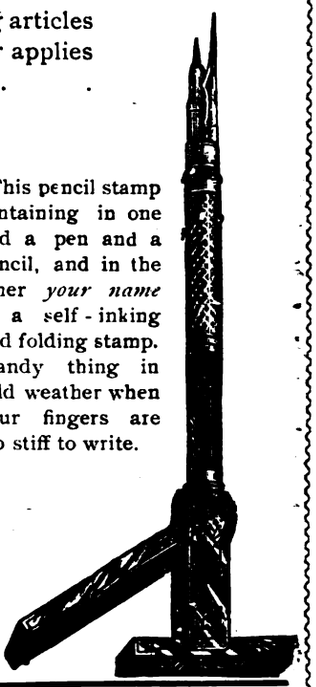
A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.



A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.



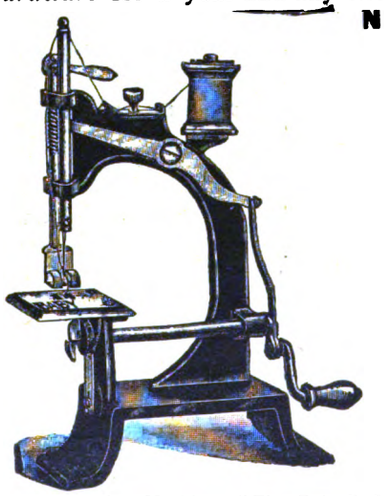
This elegant self-inking stamp, with *one line* of print *to order*. Your name, your business, your address, or whatever you wish.



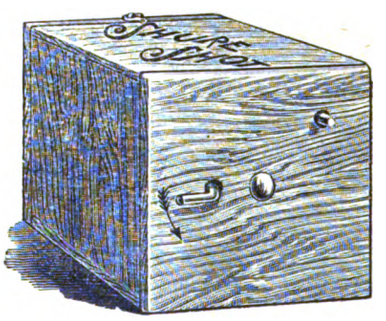
This pencil stamp containing in one end a pen and a pencil, and in the other *your name* in a self-inking and folding stamp. Handy thing in cold weather when your fingers are too stiff to write.

HERE'S OUR HOLIDAY OFFER.

Hardware for a year and any one of the following attractive premiums for $1.50. This offer applies to **NEW 1898 SUBSCRIBERS ONLY.**



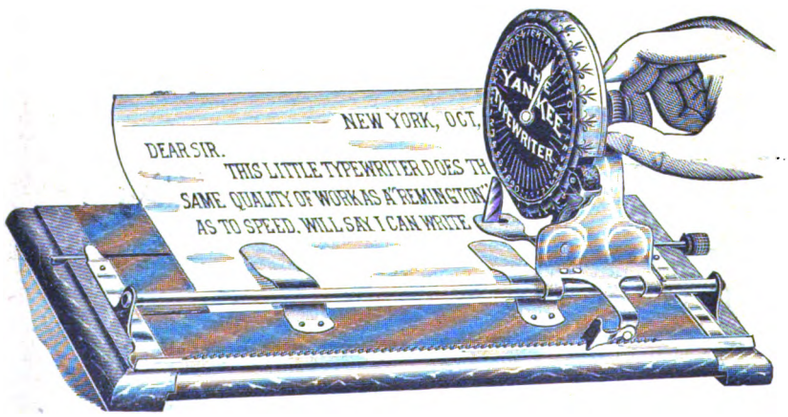
A perfect Sewing Machine. "The Baby." It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



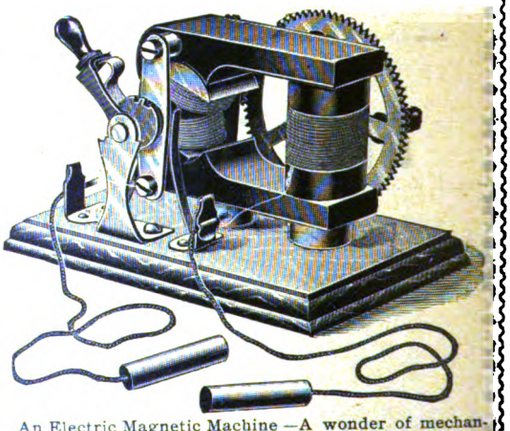
Just think—a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with any higher-priced ones of which it possesses all the best features, including an instantaneous shutter, adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewaiter—A perfect machine at a low price. Will write 15 to 20 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine—A wonder of mechanical perfection and cheapness. Supersedes the old style medical batteries, and gives a stronger current without the expense of renewals. It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

FOR ORDER BLANK SEE PAGE 62.

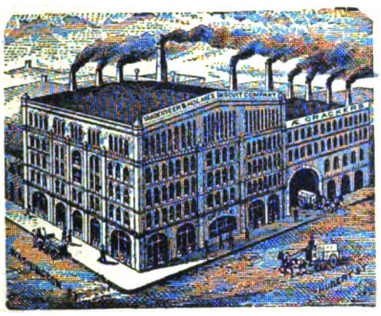
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SEE WHAT 25 CENTS WILL DO, WITH "HARDWARE."

"HARDWARE" for one year and any one of the following premiums will be sent to each NEW 1898 SUBSCRIBER, on receipt of $1.25.

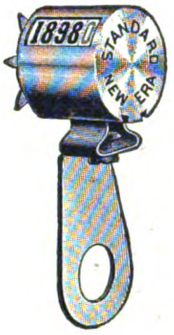
1. A Perfect Fountain Pen with 14 kt. gold pen and a filler, warranted to give the most satisfactory results.





2. A Cut of your Premises for illustrating your advertisements. You send us the photograph—we will do the rest.

A "New Era" Cyclometer, just out. Spool shape; smallest size; 10,000 miles; a perfect gem. Fully guaranteed.



4. Any one of the following valuable books, handsomely bound in cloth, a handsome gift at the holiday season:

Law Without a Lawyer. Chas. O'Malley. Count of Monte Christo. Don Quixote. French Revolution. Harry Lorrequer. Les Miserables. The Wandering Jew.
Payne's Business and Social Letter Writer.

5. Any one of the following Poets, in handsome cloth binding, gilt top, library edition. You can't buy them retail for less than $1.25.

Browning. Bryant. Burns. Byron. Chaucer. Coleridge. Dante. Faust. Hood. Keats. Longfellow. Milton. Moore. Pope. Shakespeare. Shelley. Swinburne. Tennyson. Whittier.

6. Five Books of the following well-known authors. These books are neatly bound in paper and well printed, and will be sent post-paid.

Will. Carlton.	George Ebers.	William Black.	Fergus Hume.
Cervantes.	George Elliot.	R. D. Blackmore.	Rudyard Kipling.
Wilkie Collins.	B. J. Farjeon.	M. E. Braddon.	Sir E Bulwer Lytton.
Hugh Conway.	G. Manville Fenn.	Charlotte Braeme.	Florence Marryat.
J. Fennimore Cooper.	Emile Gaboriaux.	Charlotte Bronte.	Ik. Marvel.
Marie Correlli.	Max Adeler.	Robert Buchanan.	Justin McCarthy.
Bertha M. Clay.	Gustave Aimard.	Capt. Fred. Burnaby.	Miss Mulock.
Alphonse Daudet.	Grant Allen.	Hall Caine.	David Christie Murray.
Charles Dickens.	Mrs. Alexander.	Mrs. H. Lovett Cameron.	Max O'Rell.
A. Conan Doyle.	Sir Samuel Baker.	H. Rider Haggard.	Ouida.
F. Du Boisgobey.	S. Baring Gould.	Thos. Hardy.	Chas. Reade.
The Duchess.	J. M. Barrie.	Nathaniel Hawthorne.	Sir Walter Scott.
Alex. Dumas.	Walter Besant.	Victor Hugo.	Robert Louis Stevenson.
Wm. M. Thackeray.	Count Tolstoi.	Anthony Trollope.	Jules Verne.	John Strange Winter.

YOU MAY DATE YOUR EXISTENCE,

In a trade sense, from the time you begin your subscription to "HARDWARE."

OLD SUBSCRIBERS AND NEW

May take advantage of the following liberal offer:

"HARDWARE" for one year and the "AMERICAN HARDWARE STORE," for $3.00.

The "AMERICAN HARDWARE STORE," containing 450 pages and 500 illustrations, is an exhaustive treatise on the most approved methods used by the successful merchants of this country to arrange, display and sell Hardware. It is edited by R. R. Williams, editor of the *Iron Age*, and published by the David Williams Co., of this city, at $3.00. By a special arrangement, we are enabled to combine "HARDWARE" with the book at the same price. Present subscribers will be credited for a year, in advance of their present subscription. . . . .

FOR ORDER BLANK SEE PAGE 62.

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OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know and we'll put it there. But listen to our offer. The first column is the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.** You'll find the order blank at the end of this advertisement.

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
Art Amateur	$4.00	$4.00
Art Interchange	4.00	4.00
Atlantic Monthly	4.00	4.00
Book Buyer	1.00	1.50
Century Magazine	4.00	4.25
Chautauquan	2.00	2.50
Christian Herald	1.50	1.75
Cosmopolitan	1.00	1.50
Current Literature	3.00	3.25
Demorests Family Magazine	1.00	1.50
Electrical World	3.00	3.25
Forest and Stream	4.00	New 4.00 Ren. 4.75
Forum	3.00	3.25
Frank Leslie's Illus. Newspaper	4.00	4.00
Godeys Magazine	1.00	1.50
Good Housekeeping	2.00	2.50
Harpers Bazar	4.00	4.00
Harpers Magazine	4.00	4.00
Harpers Weekly	4.00	4.00
Harpers Round Table	1.00	1.50
Illustrated American	4.00	4.00

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
Independent	$3.00	$3.25
Judge	5.00	5.00
Ladies Home Journal	1.00	1.50
Life	5.00	5.00
Lippincott's Magazine	3.00	3.00
McClure's Magazine	1.00	1.50
Munsey's Magazine	1.00	1.50
Nation	3.00	3.50
Outing	3.00	3.00
Outlook	3.00	3.50
Popular Science	2.00	2.25
Public Opinion	2.50	2.75
Puck	5.00	5.00
Review of Reviews	2.50	2.75
Rural New Yorker	1.00	1.50
St. Nicholas	3.00	3.25
Scientific American	3.00	3.25
Scribners Magazine	3.00	3.25
Short Stories	2.50	2.75
Truth	2.50	2.75
Youths Companion	1.75	New 2.00 Ren. 2.25

A complete list of all magazines would be cumbersome. If your choice is not to be found here, write us and we will gladly quote you a price in keeping with the above rates, no matter where the paper be issued nor what the regular subscription. . . .

ORDER BLANK.

HARDWARE PUBLISHING CO.,

NO. 143 CHAMBERS STREET, NEW YORK CITY

Gentlemen: Inclosed please find _____ dollar and _____ cents for which please send me postpaid "HARDWARE" for one year and _____ offered as a premium.

Name _____

Address _____

N. B.—All premiums, except where otherwise specifid, apply to **NEW SUBSCRIBERS ONLY**, and remain in force until Feb. 1, 1898.

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Barney & Berry's
Ankle Support Skate

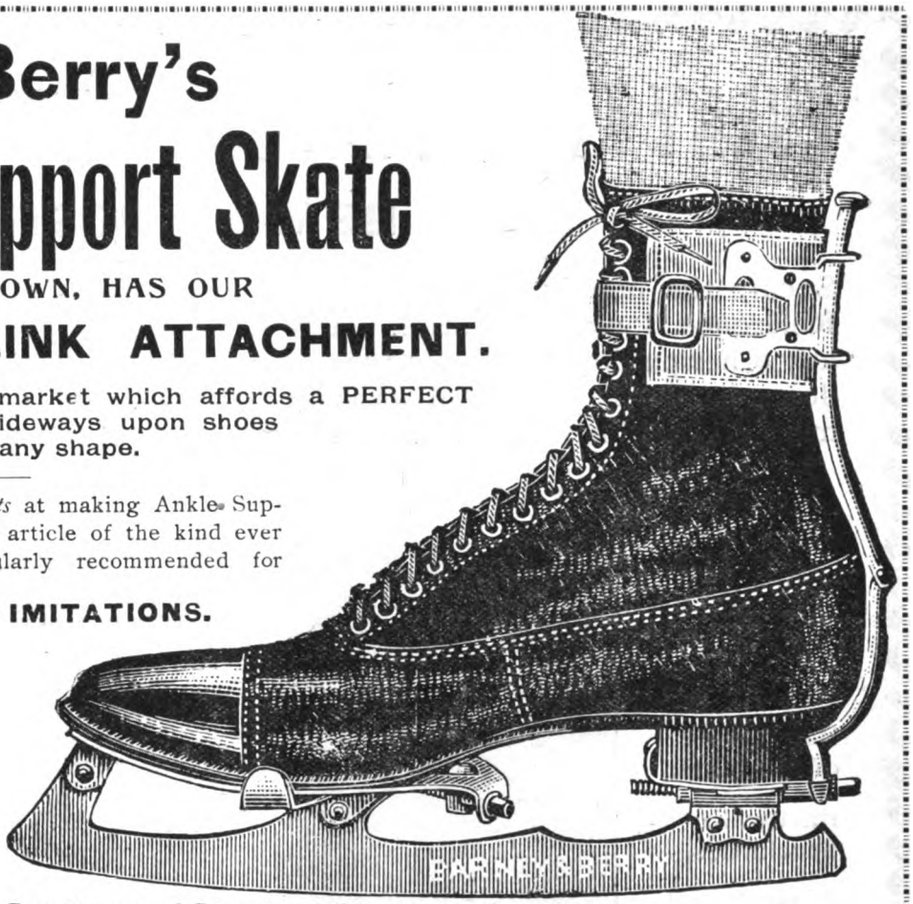
HERE SHOWN, HAS OUR

NEW LINK ATTACHMENT.

The ONLY device on the market which affords a PERFECT adjustment sideways upon shoes of any shape.

There have been many *attempts* at making Ankle Supports, but this is the only *perfect* article of the kind ever offered to the public. Particularly recommended for ladies and children.

BEWARE OF CHEAP IMITATIONS.



To avoid FRAUD see that THE NAMES OF BARNEY & BERRY ARE STAMPED ON EVERY FOOT PLATE.

Complete Catalogue of Standard Skates on Application.

NEW YORK OFFICE, 114 CHAMBERS STREET.
PHILADELPHIA OFFICE, 412 COMMERCE STREET.
BOSTON OFFICE, 100 MILK STREET.

Barney & Berry, Springfield, Mass.



THE FULTON SIGN and PRICE MARKERS

Are the best, most complete and cheapest outfits for Business men to make their own Show and Price Cards, to print Shelf Labels, mark Boxes, Barrels, etc., etc. There is in fact no business where they cannot be used to advantage. Newspapers are using them for their Bulletin Boards, Ministers for Church Notices. Theatres for Announcements, Restaurants for Bills of Fare, etc. Their price in comparison to their usefulness amounts to almost nothing; it saves the cost of Sign Painters and Ticket Writers. A Boy can do all the lettering required in the largest Department Store. They last a lifetime and can be used for every language. We have

50 DIFFERENT STYLES

to select from in sizes from ½ to 4-inch letters. For marking Boxes and Barrels for shipping, or labels, they are far superior to adjustable stencils; the work is done quicker and neater and without blurring, making it look as if printed on a printing press. Nearly 100,000 sets of the **Fulton Sign Marker** have been sold, and they are in use daily by all large wholesale and retail business houses in the United States. Goods can be bought direct from us, or through your nearest wholesale house. Complete catalogues in English and Spanish sent free. Address

THE FULTON STAMP WORKS, 22 Beekman Street, NEW YORK.

BENFIELD & MILNE MFG. CO.,

ENAMELERS ON COPPER AND STEEL.

New York Office, 92 Fulton St., MAKERS OF Factory, Newark, N. J.

White Enamel, Aluminum, Bronze, Sheet Brass and Nickel, Card Board and Cart Letters and Figures.

PEOPLE'S TELEPHONE Co. PUBLIC STATION

Enameled Iron Signs for Wagons and Trucks, Railroads and Business Signs of Every Description, also Number Plates for Hotels, Steamboats, Houses. Church Pews, Hospitals, Etc.

Street Name Plates a Specialty.

SEND FOR CATALOGUE *SPECIAL PRICES TO THE HARDWARE TRADE.*



"MAIL & EXPRESS" SCALE $5.00

Gives exact cost of postage in cents on all mail matter. Weighs up to 16 lbs by ½ ozs. for express packages. Beautifully finished Tile plate, 7½-inch dial, nickel finish

PELOUZE SCALE & MFG. CO.,

133-139 South Clinton Street, CHICAGO.

Manufacturers Postal, Counter, Family and Confectionery Scales.

BEEN WITH YOU FROM THE BEGINNING.

Union Metallic Cartridge Co., New York. [Ammunition]: We have been with HARDWARE as advertisers from the beginning and expect to continue.

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EVERY PROSPEROUS HARDWAREMAN

MUST BE WELL POSTED.

Secure the benefit of all possible Competition in Buying. A Dealer's Reference Book is essential. Here it is. A complete one, independent of any other publication, giving the names of ALL manufacturers, those who do not advertise, as well as those who do. The only work of the kind maintaining this feature. 1898 edition ready in few days. . . . .

IT COVERS THE FOLLOWING TRADES:

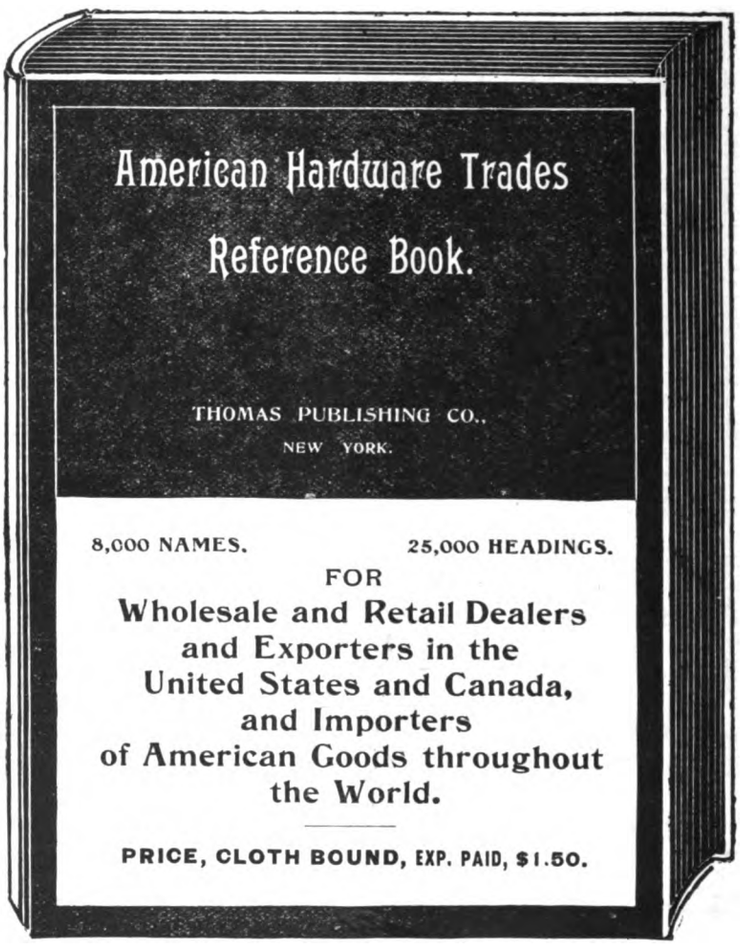
Hardware of All Kinds,

Hardware Specialties,

Agricultural Implements and Machinery of Every Description,

Carriages, Wagons, Harness,

Stoves, Ranges,



Tinware, House-furnishing Goods, Bicycles, Plumbing, Steam and Gas Fitting Goods of all Kinds and all Other Articles, Machines, etc., Handled by these Trades.

The object of the work is to enable the above trades to instantly find all the manufacturers of any article desired; the main and branch offices of every manufacturer in the trade, and the financial rating of every manufacturer.

Completeness.—The names of all manufacturers, regardless of whether they advertise or not. We give the names ver 8,000.

Classification.—By our method of classification, we index every manufacturer under every article manufactured. We name some manufacturers under as many as 300 headings. We make no charge whatever for any number of headings required to completely represent every manufacturer. The book gives nearly 25,000, fifty times as many as any other publication gives to these trades. We do not use general headings, such as are used in ordinary directories, as for instance: "Hardware," "Agricultural Implements," "Vehicles," "Plumbing Goods," etc., but state the specific article and the special kind of article, and for what purpose used, as for instance: "Door Locks," "Bicycle Locks," "Refrigerator Locks," "Gang Plows," "Sulky Plows," "Swivel Plows," "Ditching Plows," "Brass Faucets," "Wooden Faucets," "Beer Faucets," "Steam Heating Boilers," "Combination Steam and Hot Air Boilers," "Air Valves for Radiators," etc., etc., throughout the 25 000 headings, naming every article, every special kind of article needed by these trades. It enables the user to instantly find exactly what is wanted. Nothing like this minute classification has ever been attempted before.

Ratings.—The financial rating of every manufacturer is given.

SAVES SUBSCRIBERS 100 TIMES ITS COST.

THOMAS PUBLISHING CO., SOLE PROPRIETORS, 40 Broadway, New York.

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Special to our Subscribers.

WE have contracted with the Thomas Publishing Co. for 10,000 copies of the 1898 American Hardware Trades Reference Book, which we are offering to the trade of the United States, with a year's subscription to "Hardware" for $1.50; the price of the book alone. . . . . .

Those who are already paid subscribers to "Hardware" may take advantage of this offer by sending 50 cents. . .

We do not agree to hold this offer open for any specified length of time, as it will be impossible to furnish the Book alone at less than $1.50 after these 10,000 are taken.

SEE OPPOSITE PAGE.

Hardware Publishing Co.,

143 CHAMBERS STREET, NEW YORK.

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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS, BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, Etc.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

Main Office and Works, No. 240 North Union St., Chicago, Ill., U. S. A. Eastern Office, No. 284 Pearl St., New York.



FOURTH ANNUAL

Sportsmen's Exposition and Bicycle Show,

UNDER THE AUSPICES OF THE National Sportsmen's Association.

Madison Square Garden, New York,

JANUARY 13 to 22, 1898.

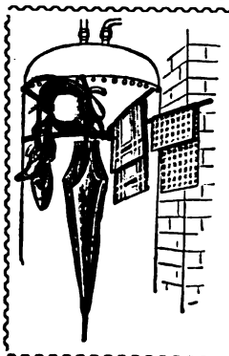
Educational Exhibit of Sportsmen's Equipments and Appliances. Bicycles and Bicycle Sundries. Fly Casting, Shooting, Bowling and other Contests. Live Specimens of Wild Game, Birds and Fish.

Apply at once for diagrams, application blanks, and particulars, to

SECRETARY, P. O. Box 2325, N. Y. City, or 377 Broadway.

FRANK W. SANGER, Manager Madison Square Garden Co., New York.

SPECIAL NOTICE.—For $2.00 any gentleman may become a member of the NATIONAL SPORTSMEN'S ASSOCIATION, membership entitling him to free admission to the Sportsmen's Exposition, reduced rates at Association hotels, one year's subscription to the Official Bulletin, and other privileges, which can be learned of by addressing the Sportsmen's Association, P. O. Box 2325, N. Y. City, for application blank and prospectus.



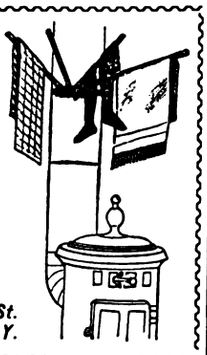
THE JEWEL BOILER DRYING RACK

Fits any Size Range Boiler or Stovepipe.

Retails for 35 cents.

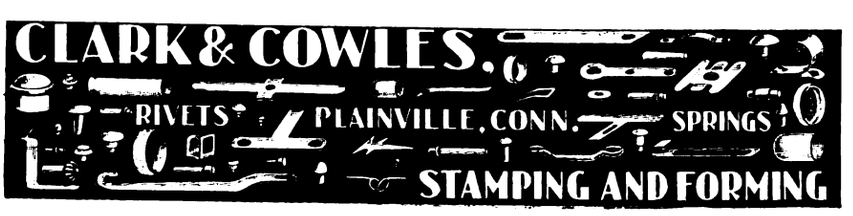
TRADE PRICE, - $24. PER GROSS

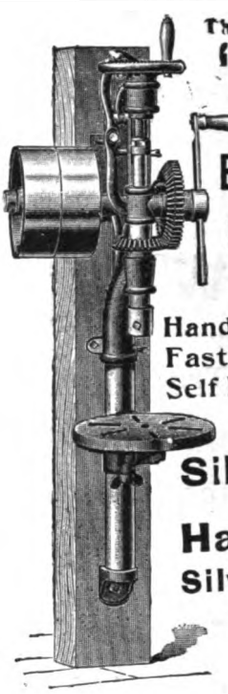
To introduce, will accept orders for 1 dozen or more at the gross price. Satisfaction guaranteed. . . . .



Gem Mfg. Co., 167 Chambers St. NEW YORK, N. Y.

CLARK & COWLES.





The . . . "Advance" fine Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO., SALEM, OHIO.

Howard Iron Works,

BUFFALO, N. Y.

Manufacturers of

Bench Vises.

Price Lists sent on application.

Well Worth It.

I. B. Bolles, Wareham, Mass. [*Hardware and Farming tools*]: Enclosed find check for $1 for HARDWARE for the year 1897. We think it is well worth it. . . . .

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HARDWARE BUYERS' DIRECTORY.

CLASSIFIED INDEX TO ADVERTISERS.

Agate Ware.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Agricultural Implements.
John H. Graham & Co., New York.
F E Kohler & Co, Canton, Ohio.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., New York.

Anti-Friction Metal.
Magnolia Metal Co., New York.

Anti-Rattler.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Anvils
Alfred Field & Co., New York.
Van Wagoner & Williams Hardware Co., New York and Cleveland, Ohio.

Apple Parers.
Goodell Company, Antrim, N. H.
Reading Hardware Co., Reading, Pa.

Architectural Iron Works.
Stewart Iron Works, Cin'nati, O.

Arms and Ammunition.
Alfred Field & Co., New York.
Hartley & Graham, New York.
Remington Arms Co., New York.
Union Metallic Cartridge Co., Bridgeport Conn.
Waterbury Brass Co., New York.

Art Hardware.
Reading Hardware Co., Reading, Pa.

Awning Frames.
Stewart Iron Works, Cin'nati, O.

Babbitt Metal.
Bruce & Cook, New York.

Badges.
Schwerdtle & Siebert, Bridgeport, Conn.

Baking Pans.
Royal Polished Steel Roaster Co., Troy, O.

Barb Wire.
Fuller Bros. & Co., New York.

Basin Plugs.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Batteries.
Peru Electric Mfg. Co., Peru, Ind.

Beaters.
North Bros. Mfg. Co., Philadelphia.

Bells.
Bristol Bell Co., Bristol, Conn.
John H. Graham & Co., New York.
N. N. Hill Brass Co., East Hampton, Conn.
New Departure Bell Co., Bristol, Conn.
Ohio Electric Works, Cleveland, Ohio.
Joseph Osterman & Co., Manayunk, Pa.

Bells, Electric.
See Electric Bells and Supplies.

Belt Dressing.
Jos. Dixon Crucible Co., Jersey City, N. J.

Belting.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting Co, Newark N. J.
See Rubber Belting.

Bench Stops.
Charles Morrill, New York.

Bicycle Stands.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.

Bicycles and Bicycle Sundries.
Aluminum Sign & Novelty Co., Columbus, Ohio
Bristol Bell Co, Bristol, Conn.
Brown-Lewis Cycle Co., Chicago.
Canton Cycle Mfg. Co., Canton, O.
Cushman & Denison, New York.
John H. Graham & Co. New York.
N. N. Hill Brass Co., East Hampton, Conn.
Lane Bros., Poughkeepsie, N. Y.
Miller & Van Winkle, Brooklyn, N. Y.
New Departure Bell Co., Bristol, Conn.
New York Belting & Packing Co., Ltd., New York.
Ohio Electric Works, Cleveland, Ohio.
Joseph Osterman & Co., Manayunk, Pa
Plume & Atwood Mfg. Co., New York.
Pope Mfg. Co., Boston.
Pope Tube Co., Hartford, Ct.
Remington Arms Co., New York.
Smith & Egge Mfg. Co., Bridgeport. Conn.
Chas J Stebbins, NewYork.
Union Heater Supply Co., Detroit, Mich.

Bicycle Step Ladders.
Bicycle Step Ladder Co. Chicago.

Blind Hinges.
Stanley Works, New Britain, Ct.

Bits.
Bridgeport Gun Implement Co., Bridgeport. Conn.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.

Blacksmith's Outfits.
Holroyd & Co., Waterford, N. Y.

Blocks, Tackle.
See Tackle Blocks.

Bolts.
Brass Goods Mfg Co, Brooklyn, N. Y.
Bruce & Cook, New York.
Isaac Church, Toledo, Ohio.
Franklin S. Miles, Philadelphia.
Union Nut & Bolt Co., New York.

Bone Black.
Geo. F. Taylor's Sons, New York.

Box Straps.
Quincy Hdwe. Mfg. Co., Quincy, Ill.

Braces.
Lancaster Machine & Knife Works, Lancaster, N. Y.

Brackets.
Atlas Mfg. Co., New Haven, Conn.
W. C. Heller & Co., Montclair, N. J.

Brass & Composition Castings.
C. H. Angus, Albany, N. Y.

Brass, Manufacturers.
Waterbury Brass Co., New York

Brass, Perforated.
Harrington & King Perforating Co., Chicago.

Brass Signs.
Schwerdtle & Siebert, Bridgeport, Conn.

Brazing Machines.
Union Heater Supply Co., Detroit, Mich.

Brushes.
Buchel Brush Novelty Co., New Orleans, La.

Buffing Wheels.
Divine Bros., Utica, N. Y.

Buggy Canopies.
Sprague Umbrella Co., Norwalk, Ohio.

Builders' Hardware.
Norwalk Lock Co., South Norwalk, Conn.
Russell & Erwin Mfg. Co., New York.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.

Bungs.
John Sommer's Sons, Newark, N.J.

Butcher Knives, Tools and Steels.
John Chatillon & Sons, New York.
Northampton Cutlery Co., Northampton, Mass.

Butts.
Bommer Bros., Brooklyn, N. Y.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.

Butts, Spring.
Bommer Bros., Brooklyn, N. Y.

Calipers.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.

Canopies and Fixtures.
I. E. Palmer, Middletown, Conn.

Car Sealers.
Charles Morrill, New York

Carpet Sweepers.
Bissell Carpet Sweeper Co., Grand Rapids, Mich.; New York.

Carving Tools.
Hammacher, Schlemmer & Co., New York.

Carriers.
F. E. Myers & Bro., Ashland, Ohio.

Casters.
Allerton, Clarke Co., New York.

Castings.
Aluminum Sign & Novelty Co., Columbus, Ohio.
C. H. Angus, Albany, N. Y.

Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Ceiling Plates.
Ferrosteel Co., Cleveland, Ohio.

Collar Grates.
Hess, Snyder & Co., Massillon, O.

Cement.
New York Belting & Packing Co., Ltd., New York.

Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Checks.
Schwerdtle & Siebert, Bridgeport, Conn.

Cherry Stoners.
Enterprise Mfg. Co., Philadelphia.
Goodell Co., Antrim, N. H.

Chimney Ventilators.
Hess, Snyder & Co., Massillon, O.

Chucks.
Detroit Twist Drill Co., Detroit, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Claspe.
Th. M. Hass, New York.

Clay Screens.
Harrington & King Perforating Co., Chicago.

Cleavers.
John Chatillon & Sons, New York.

Clippers, Horse and Barbers'.
American Shearer Mfg. Co., Nashua, N. H.
Coates Clipper Manufacturing Co. Worcester, Mass.
Alfred Field & Co., New York.
Gillette Clipping Machine Co., New York.
John H. Graham & Co., New York.

Clocks.
Prentiss Clock Improvement Co., New York.

Clock Springs.
Wallace Barnes, Bristol, Conn.

Closet Pulls.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Coal Screens.
Edward Darby & Sons, Phila., Pa.
Harrington & King Perforating Co., Chicago.

Coat, Hat and Ceiling Hooks.
Atlas Mfg. Co., New Haven, Conn.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Copper.
Bruce & Cook, New York.

Copper, Perforated.
Harrington & King Perforating Co., Chicago.

Cordage and Twines.
Samson Cordage Works, Boston.

Cork Pullers.
Enterprise Mfg. Co., Philadelphia.

Corkscrews.
Erie Specialty Co., Erie, Pa.
Alfred Field & Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Counterfeit Detectors.
Pelouze Scale & Mfg. Co., Chicago.

Crayon.
Jos. Dixon Crucible Co., Jersey City. N. J.

Cresting.
E. T. Barnum, Detroit, Mich.

Curled Hair.
Baeder, Adamson & Co., N. Y., Phila., Boston and Chicago.

Curry Combs.
John H Graham & Co., New York.
F E. Kohler & Co., Canton, Ohio.
New York Stamping Co., Brooklyn, N. Y.

Cutlery.
John Chatillon & Sons, New York.
Alfred Field & Co., New York.
Goodell Co, Antrim, N. H.
Hammacher, Schlemmer & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Northampton Cutlery Co., Northampton, Mass.
Patterson, Harral & Gray, N. Y.
Jos. Rodgers & Sons, Sheffield, England.
Seymour Cutlery Co., Holyoke, Mass.
Tuck Mfg. Co., Brockton, Mass.
J. Wiss & Sons, Newark, N. J.

Cutters, Fodder.
W. R. Harrison & Co., Massillon, O.
Silver Mfg. Co., Salem, Ohio.

Dampers.
Arcade Mfg. Co., Freeport, Ill.
Troy Nickel Works, Albany, N. Y

Dies.
Th. M. Hass, New York.
F. E. Myers & Bro., Ashland, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
Vieillard & Osswald, Brooklyn, N. Y.

Dog Collars and Muzzles.
Alfred Field & Co., New York.
Tower & Lyon, New York.
Union Hardware Co., Torrington, Conn.

Door Checks and Springs.
John Chatillon & Sons, New York.
Norton Door Check & Spring Co. Boston, Mass.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York.

Doors and Shutters, Iron.
Stewart Iron Works, Cin'nati, O.

Drills.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Kearney & Foot Co, New York.
Silver Mfg. Co., Salem, Ohio.
Standard Tool Co., Cleveland, O.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Drills, Blacksmiths', Etc.
Silver Mfg. Co., Salem, Ohio.

Drying Racks.
Gem Mfg. Co., New York.

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Drop Presses.
Miner & Peck Mfg. Co., New Haven, Conn.

Dumb Waiters.
Energy Mfg. Co., Philadelphia
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.

ynamos.
W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.
W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Peru Electric Mfg. Co., Peru, Ind.

Elevators.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.

Elevator Screens and Guards.
Harrington & King Perforating Co., Chicago.

Emery.
Crescent Emery Mills Co., Oscawana, N. Y.
Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.
Crescent Emery Mills Co., Oscawana, N. Y.
New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.
J. L. Prescott Co., New York.

Enameling Ovens.
Union Heater Supply Co., Detroit, Mich.

Enamel Ware.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Envelope and Stamp Lubricators
Pelouse Scale & Mfg. Co., Chicago.

Expansion Bolts.
Isaac Church, Toledo, O.

Export Agents.
John H. Graham & Co. New York

Exposition.
Sportsmen's Exposition & Bicycle show, New York.

Eyelets.
Waterbury Brass Co., New York.

Faucets.
Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Fibre Ware.
Standard Fiber-Ware Co., Mankato, Minn.

Files.
Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.

Filteration Quartz.
New England Filteration Co., Boston.

Filters.
J. H. Seed, New York.

Fire Escapes.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Flat Ware.
See Plated Ware.

Flower Pot Stands.
E. T. Barnum, Detroit, Mich.

Fluting Machines.
North Bros. Mfg. Co., Philadelphia.

Fodder Cutters.
Silver Mfg. Co., Salem, O.

Foundry Riddles.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.
Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.
Stewart Iron Works, Cin'nati, O.

Fruit Pickers.
Edward Darby & Sons, Philadelphia.

Fruit Presses.
Enterprise Mfg. Co., Philadelphia.
Logan & Strooridge Iron Co., New Brighton, Pa.

Furnaces.
Hess, Snyder & Co., Massillon, O.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.
New Jersey Car Spring & Rubber Co, Jersey City, N. J.

Garden Tools.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.
H. O. Canfield, Bridgeport, Conn.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.
Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.
Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.
Stanley Rule & Level Co., New Britain, Conn.

Gears.
T. F. Welch & Co., Boston.

Generators.
W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.
H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.
Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.
Jos. Dixon Crucible Co., Jersey City, N. J.

Grating, Iron.
Stewart Iron Works, Cin'nati, O.

Grinding Mills.
A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.
Cleveland Stone Co., Cleveland.

Gummers.
E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.
E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.

Gun Implements.
Bridgeport Gun Implement Co., New York.
Bartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Hammers.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
The Scranton & Co, New Haven, Conn.
Troy Nickel Works, Albany, N.Y.

Hammocks.
I. E. Palmer, Middletown, Conn.

Handles.
Berger Bros., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio
Russell & Erwin Mfg. Co., New York.

Hangers.
Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.
Cronk Hanger Co., Elmira, N Y

Hangers, Door.
Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N.Y.
McCabe Mfg. Co., New York.
McKinney Mfg. Co., Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.
Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.
Arcade Mfg. Co., Freeport, Ill.
Berger Bros., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles, Plainville, Conn.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
"Foreign," New York.
Griswold Mfg Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
North Bros. Mfg. Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Gray, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
T. F. Welch & Co., Boston.

Harness Snaps.
Covert Mfg. Co., West Troy, N. Y.
Ira F. White & Son, New York.

Hasps.
McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.
F. E. Myers & Bro., Ashland, O.

Hay Forks.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.
E. T. Barnum, Detroit, Mich.

Heaters
C. R. Meres Heater Mfg. Co. Norwalk, O.
Edward Miller & Co., Meriden, Conn.

Hinges.
Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hoisting Machinery.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.

Hones, Razor.
Alfred Field & Co., New York.
Pike Mfg. Co., Pike Station, N. H.

Hooks.
W. C. Heller & Co., Montclair, N. J.

Horse Nails.
Ausable Horse Nail Co, New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.
F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.
Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus
Bramhall Deane Co, New York.

Ice Tools.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.

Ice Cream Freezers.
John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.
Mutual Life Insurance Co. New York.

Iron.
Bruce & Cook, New York.

Iron Castings.
C. H. Angus, Albany, N. Y.

Iron, Perforated.
Harrington & King Perforating Co, Chicago.

Jail Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.
C. H. Angus, Albany, N. Y.

Kitchen Sinks.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.
National Saw Co., Newark, N. J.

Ladders.
Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.
Plume & Atwood Mfg. Co., New York.

Lanterns.
Buhl Stamping Co., Detroit, Mich.

Lathes.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.
George Hayes, New York.

Lawn Fountains.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lead.
Bruce & Cook, New York.

Lead Pencils.
Jos. Dixon Crucible Co., Jersey City, N J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.
Berger Bro., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.
Tower & Lyon, New York.

Lifters Automatic.
Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.
Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.
A. Adamson, Akron, Ohio.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.

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Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Vieillard & Osswald, Brooklyn, N. Y.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.
C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Mail Boxes.
W. C. Heller & Co., Montclair, N. J.

Mallets.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.
Fulton Stamp Works, New York.

Masons' Lines.
Samson Cordage Works, Boston.

Meat Choppers.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.
New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.
C. H. Angus, Albany, N. Y.

Metals, Perforated.
Harrington & King Perforating Co., Chicago.

Metallic Paint.
Bruce & Cook, New York.

Metal Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Milk Cans.
Buhl Stamping Co, Detroit, Mich.

Mincing Knives.
Enterprise Mfg. Co., Philadelphia.

Mining Screens.
Harrington & King Perforating Co., Chicago.

Mirrors, Window.
Bayer & Co., Philadelphia.

Model Making.
Schwerdt'e & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mops.
Matchless Mop Wringer Co., Canton, Ohio.

Mop Wringers.
Matchless Mop Wringer Co., Canton, Ohio.

Mosquito Netting.
I. E. Palmer, Middletown, Conn.

Motors.
W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.
A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York,
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co, Bridgeport, Conn.

Oil Stones.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.
Edward Miller & Co., Meriden, Conn.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Photo-Engraving.
Otto Neuburg, New York.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg Co., Cleveland Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.
See Traps.

Refrigerators.
Baldwin Refrigerator Co., Burlington, Vt.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia.

Reels.
Hartzell Novelty Works, Alliance, Ohio.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co, Bridgeport, onn.
Queen Sash Balance Co., New York.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co, New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York,

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

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Underhill, Clinch & Co, New York.

Screens, Perforated Metal.
Harrington & King, Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screws.
Franklin S. Miles, Philadelphia.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York,
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.

Shears and Scissors.
Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

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Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
Barney & Berry, New York, Boston, Philadelphia, Springfield.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York.

Spark Guards.
Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

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Harrington & King Perforating Co., Chicago.

Stencils.
Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
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Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.

Stove Mittens.
Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Stove Trimmings.
Logan & Strobridge Iron Co., New Brighton, Pa.
Troy Nickel Works, Troy, N. Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co.' Cleveland, O.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

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Stewart Iron Works, Cin'nati, O.

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Boston & Lockport Block Co., Boston and Lockport, N. Y.
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Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

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Tack Pullers.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.

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Tape Measures.
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Waterbury Brass Co., New York.

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Cleveland Target Co., Cleveland, Ohio.

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New York Belting & Packing Co., Ltd., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

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C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

Tin-Plate.
Bruce & Cook, New York.

Tires Rubber.
New York Belting & Packing Co., New York.

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A. P. W. Paper Co., Albany, N. Y.

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Coes Wrench Co., Worcester, Mass.
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Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
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Holroyd & Co., Waterford, N. Y.
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John H. Graham & Co., New York.
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Boston & Lockport Block Co., Lockport, N. Y.
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New Jersey Car Spring & Rubber Co., Jersey City, N. J.
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New York Belting & Packing Co., Ltd., New York.

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Tower & Lyon, New York.
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Sprague Umbrella Co., Norwalk, Ohio.

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Arnold Metal Wheel Co., New London, Ohio.
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Harrington & King Perforating Co., Chicago.

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Window Screens.
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A. J. Phillips Co., Fenton, Mich.

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The Malin & Co., Cleveland, Ohio.
Waterbury Brass Co., New York.
Wright & Colton Wire Cloth Co., Worcester, Mass.

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E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
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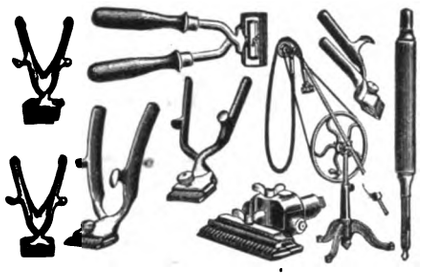
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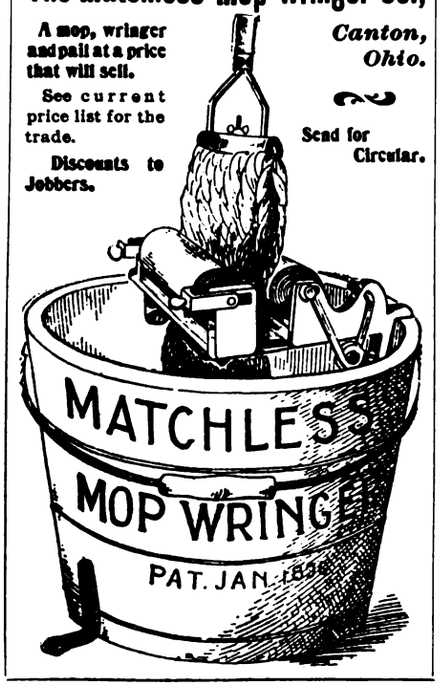
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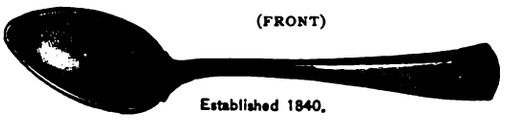
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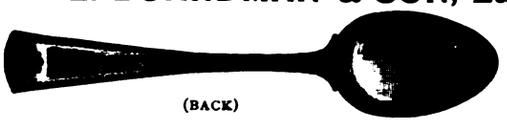
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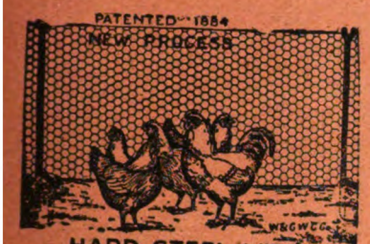
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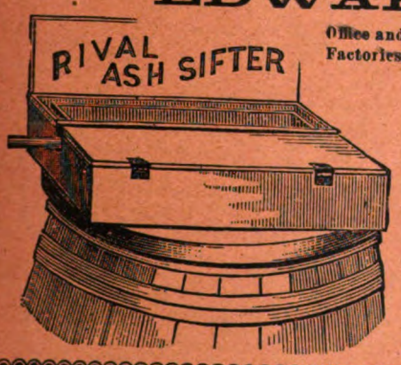
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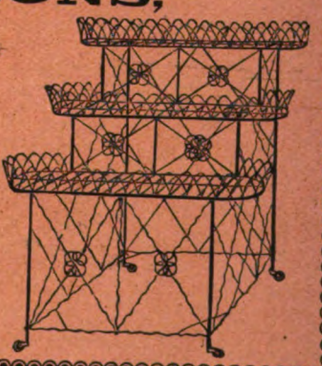
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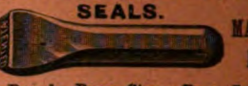


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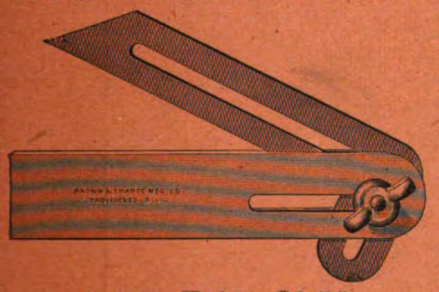
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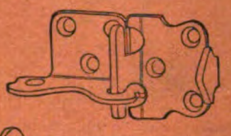


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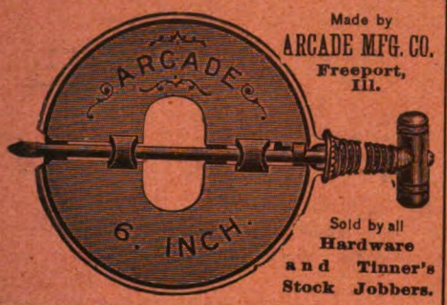
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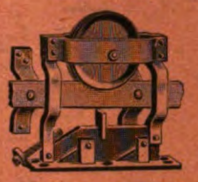
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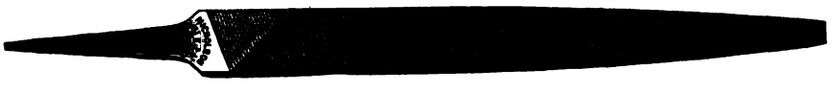
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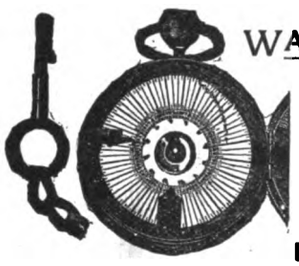
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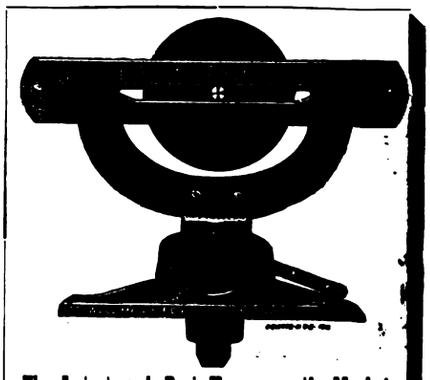
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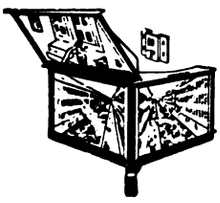
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TAKE THIS ELEVATOR, PLEASE.

You can make money by using our goods. They are up-to-date. Carefully built. We have over 3000 in use.

WARNER ELEVATOR MFG. CO.,

Write for Information Book No. 30. CINCINNATI, OHIO.



WINDOW MIRRORS

Enables a person to see up and down the street, eight to ten blocks, and who's on the door step. Can be attached to any house.

THE BEST MADE, "THE PERFECTION."

We want live agents in every town in the United States and Canada. Write us

BAYER & CO., *28 North 13th St., PHILADELPHIA, PA.*

WATERBURY BRASS CO.,

60 Centre St., New York.

Manufacturers of

Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS

OF ALL KINDS.

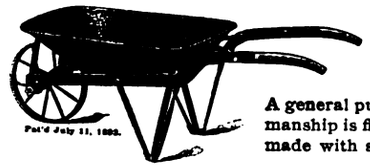
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EYELETS AND SMALL BRASS WARES

OF EVERY DESCRIPTION.

ALL STEEL BARROWS Except Handles.



For Coal, Ashes, Cinders, etc.

A general purpose barrow. Capacity of tray, 4 cubic feet. The workmanship is first class in every respect; all riveted together. But wheels made with self-oiling boxes. Make your orders now for 1897.

THE ARNOLD METAL WHEEL CO., - - New London, Ohio.

CHAMPION BARROWS

Still remain the STANDARD OF THE WORLD.

Why not sell the BEST? *All kinds of Wood and Steel Barrows.*

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BRYAN, OHIO, U. S. A.

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Disston's Superior Files.

The Steel used in these Files is manufactured by our own steel works. They are cut by skilled mechanics on our own improved machinery, hardened by a special process which insures an even temper.

Each File is carefully inspected before leaving the factory.

We Guarantee the quality of our Files to be equal to that of our Saws. . . . . .

IF YOU CANNOT BE SUPPLIED WRITE US.

Highest Award given our Files wherever exhibited

Henry Disston & Sons, Incorporated,

Philadelphia, Pa.

THE "DIAMOND" 'W. & B." UNIVERSAL SELF-OILING DRILLS.

STYLE "A." STYLE "B."



Furnished with either Straight or Taper Shanks, any length desired. Three Styles.
Send for Descriptive Matter and Special Discounts. MANUFACTURED ONLY BY
THE WHITMAN & BARNES MANUFACTURING CO.,
NEW YORK, N Y. CINCINNATI, OHIO. CHICAGO, ILL. KANSAS CITY, MO.

DIXON'S Carpenters' Pencils Lumbermens' Crayons

Are salable goods for any Hardware Dealer and carry with them a good profit.

Have you our new Production Catalogue? It is sent free of charge.

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Sole Manufacturers of

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THE FINISHED STEEL CO

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MFR'S OF **POLISHED SHAFTING**

It Doesn't Burn off.



Gillespie's Elastic Iron Enamel is practically indestructible, and is unequalled for use on Stove Pipes, Registers, Grates, Locomotive Smoke Stacks, etc. This is the season of the year when its sale in pint and half-pint cans to the household trade is enormous.

Your stock is not complete without it. Write for jobbers' special discount, and send us a sample order.

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Varnish Makers, 125 to 137 Dey St.
Jersey City, N. J. Established 1824.

OUR WANTS ARE ENDLESS!



We want reliable agents all over the United States to sell the . . .

ELTING PATENT SASH LOCK.

Burglar-proof, Ventilating, Anti-rattling.

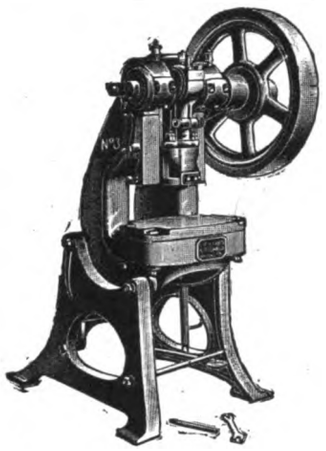
Positively the best selling and most perfect sash lock ever offered to the Hardware trade. It is to your interest to write at once. Sample, prepaid, 30 cts. Descriptive price lists free. . . .

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"Replies From All Sections."

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VIEILLARD & OSSWALD,

Manufacturers of

PRESSES AND DIES AND SPECIAL MACHINERY

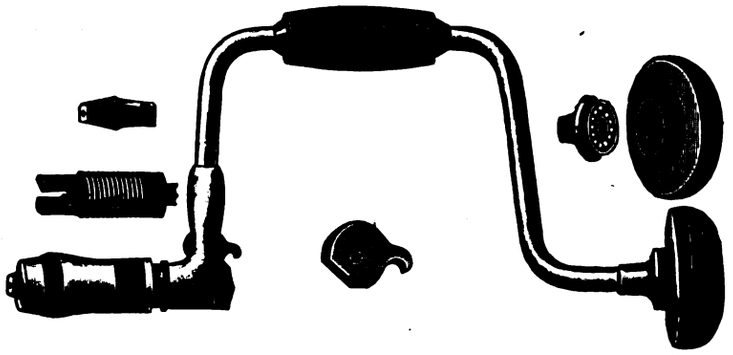
FOR THE WORKING OF SHEET METAL

Dies for Sheet Steel Stampings a Specialty.

708-710 Jamaica Avenue, BROOKLYN, N. Y., U. S. A.

WRITE FOR PRICES.

THE IMPROVED PATENT RATCHET BRACE, BEST THING ON THE MARKET.



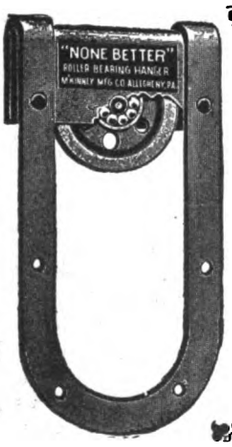
NOTE THESE IMPORTANT POINTS OF SUPERIORITY:

Simplicity of mechanism. Lever blade used for ratcheting. Ratchets either right or left, and to work stationary. Does perfect work with any size of bit. Twelve balls in head run on steel cups, as strong and easy running as those in bicycles. . . . . .

Also First Class Line of Butchers' Cleavers.

SEND FOR FULL PARTICULARS.

LANCASTER MACHINE & KNIFE WORKS, LANCASTER, N. Y.



STEEL DOOR HANGERS.

WRITE FOR PRICES ON

No. 1 Special and No. 2 Standard.

THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

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LACQUERS, CYANIDE POTASH, NICKEL SALTS.

ESTAB. 1822. INCOR. 1891.

THE HANSON & VAN WINKLE Co.

OFFICE NEWARK, N.J., U.S.A.

AND WORKS NEWYORK. CHICAGO.

TRIPOLI, ROUGE, BUFFS, & C.

OUTFITS

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$18.00

Grand Clearing Sale '97 Stock.

A handsome, WELL MADE bicycle, '97 model, 1⅛ and 1¼ inch tubing, drop forged connections, tool steel bearings, good tires, standard Garford saddle, rat-trap or rubber pedals. Every machine GUARANTEED PERFECT. Just the thing to catch the late fall trade. Samples shipped C. O. D., subject to full examination, on receipt of guarantee of express one way. TIME IS MONEY. THEY ARE GOING FAST. Don't wait for lists. Order a sample at once. You can't lose anything. Special prices on machines without tires, saddles and pedals.

Say:—"I saw it in HARDWARE."

The BROWN-LEWIS CYCLE CO., Chicago.



DIANA'S TRIUMPH.

REMINGTON HAMMERLESS.

PERFECT IN BALANCE.

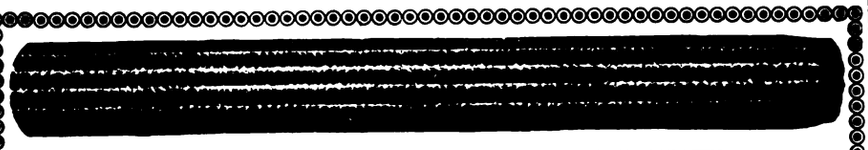
Strong in Workmanship.
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THE
Invaluable result of nearly a century's mechanical experience.

New Illustrated Catalogue Mailed Free.

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PIPE and GUTTER.

Extra large stock of galvanized corrugated pipe and slip joint gutter always on hand. Special sizes or copper stock made to order on short notice. . . . .

Write for Prices.

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MANUFACTURERS,

STAMPED CEILINGS,

AND ALL KINDS OF

Sheet Metal Goods for Buildings,

Iron Shutters and Doors, Roof Paints, etc.

Best construction, quality and workmanship guaranteed.



STOVE LID LIFTERS

30 KINDS.

COPPERED, TINNED, NICKEL PLATED.

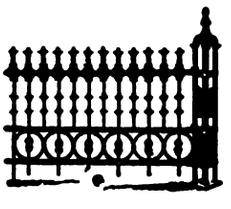
. . . WE MAKE TONS OF THEM. . . .

LOGAN & STROBRIDGE IRON CO., New Brighton, Pa.

WE WANT AGENTS TO SELL OUR **IRON FENCE**

We furnish first-class work at prices that bring the trade. Write for Catalogues, Prices and Terms

The Stewart Iron Works,
CINCINNATI, O.
Manuf'rs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





FLOWER-POT STANDS

OF ALL KINDS.
SEND FOR CATALOGUE.

Iron Fencing, Entrance Gates,

FIRE ESCAPES, JAIL CELLS, ROOF CRESTING, BANK and OFFICE RAILINGS, GRILLES,



AND ALL KINDS OF WIRE & IRON WORK.

E. T. BARNUM, DETROIT, MICH.

Agents Wanted Mention this paper.

FAMILY GRINDSTONES.

Great Reduction in Prices.

If you have not received our revised price list write for it.

The Cleveland Stone Co.,
Cleveland, O.

Hardware Dealers Send us your address and we will mail Catalogue and discount sheet of **STOCKS & DIES, TAPS, etc.**



Holroyd & Co.,
Waterford, N. Y.

RESULTS ARE SO SATISFACTORY.

Capewell Horse Nail Co., Hartford, Conn. [*Horse Nails*]: We have been liberal advertisers in your journal for years, and the results are so satisfactory that we expect to be much more liberal for years to come.

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BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

Sheep Skin Mitten.



Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

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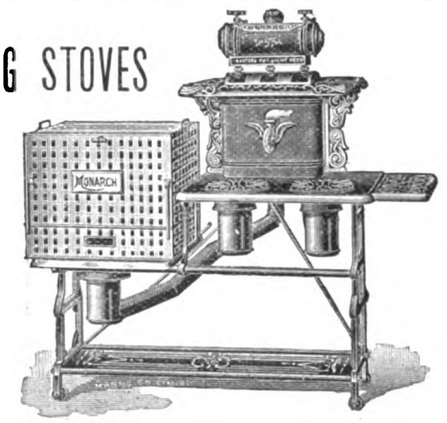
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MONARCH VAPOR COOKING STOVES

For Hot Weather,
And Embracing—

Cheap Stoves,
Complete Family Ranges,
Portable Ovens

And All Essential Features. . . .



The Monarch Stove Co.,

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ALUMINUM SIGN LETTERS AND FIGURES, 7 STYLES, 36 SIZES.

Complete stock always on hand. Exclusive manufacturers and originators of the only Interchangeable Script Sign Letter. A fine line of House Numbers, Name and Door Plates, and Street Signs. Aluminum Trade Checks, Aluminum Bicycle Chain Guards, Aluminum Castings. We challenge comparison for promptness, quality, and prices. Illustrated Catalogue on application.

ALUMINUM SIGN & NOVELTY CO., 174 W. Locust St., COLUMBUS, OHIO.



Potter's Lathe for Pottery Use.

SPECIAL MACHINERY

WIRE drawing, CLAY working,
RUBBER washing, CHAIN WINDING,
CUTTING and WELDING machines,
POWER TRANSMISSION, Pulleys, Shafting,
Gearing Boxes, Collars, etc., etc.

TURNER, VAUGHN & TAYLOR CO.,

CUYAHOGA FALLS, OHIO, U. S. A.

New Stamped Metal Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

PATENTED AND PATENTS PENDING.

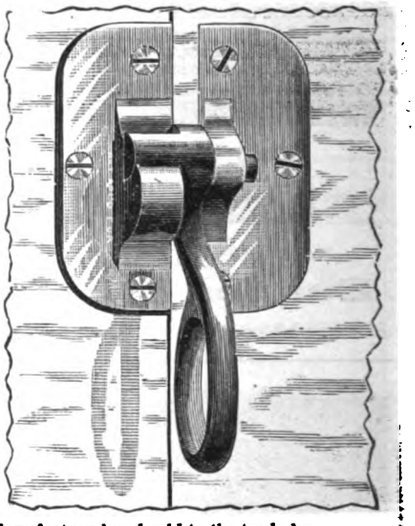
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HOBART B. IVES & CO.,

New Haven, Conn.

The CONROY PATENT Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

P. J. CONROY,

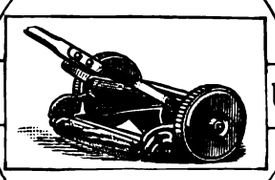
Beware of Infringements. Paschall, Phila.

HIGH GRADE LAWN MOWERS.

6½, 7, 8, 9¼, 10 INCH WHEELS.

SEND FOR CATALOGUE AND PRICES.

THE WORLD'S CHOICE ...THE... Renowned Unrivalled GENUINE PHILADELPHIA MOWERS



10 STYLES OF OPEN CYLINDER MOWERS

INCLUDING OUR STYLE A ALL STEEL MOWER.

PHILAD'A LAWN MOWER CO.

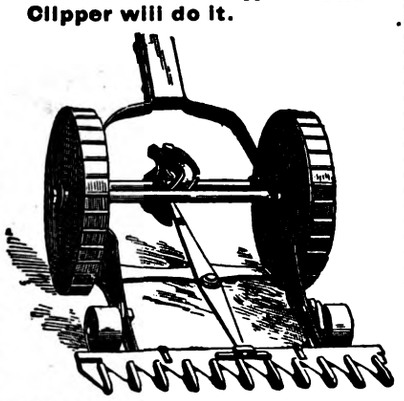
3107 and 3109 Chestnut St.,

PHILADELPHIA, PA., U. S. A.

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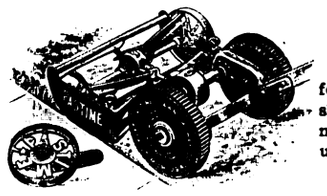
The Mower...

That will **Kil aill the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**



CLIPPER LAWN MOWER CO.,
. . . NORRISTOWN, PA.

PASTIME LAWN MOWER & TRIMMER.



IMPROVED 1898 MODEL.

This front cut mower trims to within ⅛-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

SEND FOR CIRCULAR AND PRICES.

Pastime Lawn Mower Co.,
We have the Best Weed Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

TRUCKS OF ALL KINDS.
A. ADAMSON
MACHINIST.
Corner Exchange and Water Streets,
AKRON, OHIO.

General Machine Work, Molds for Bicycle Tires, Air Goods, Druggists' Sundries, Matrices for Hard Rubber Goods, Die Sinking, Hydraulic Presses, Special Machinery, etc. Estimates cheerfully given. Correspondence solicited. Work promptly done.

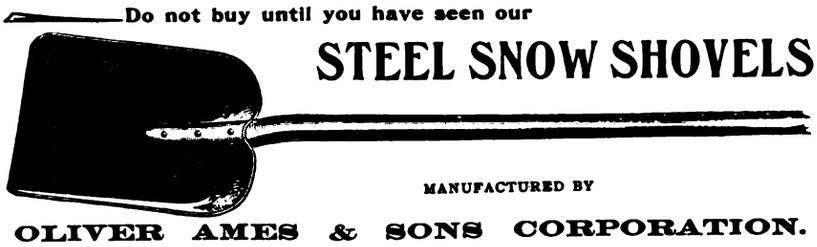
Rubber Machinery



COVERT MFG. CO.,
WEST TROY, N. Y.
Derby Snap,
With Plated, Rust Proof and Guarded Spring. . . .
"The latest and best."
For sale by Jobbers at Manfrs. prices.

UNDERHILL, CLINCH & CO.,
94 Chambers Street, New York.

Do not buy until you have seen our



STEEL SNOW SHOVELS

MANUFACTURED BY
OLIVER AMES & SONS CORPORATION.
Send for our Shovel Catalogue showing goods carried in stock and new prices.

LAWN MOWERS

BUILT ON HONOR.

A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

LEADERS THE WORLD OVER.

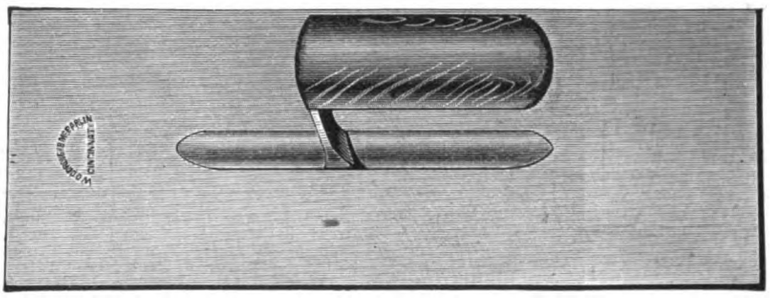
Wise dealers will buy Lawn Mowers that will give their customers satisfaction not only for one year but for years to come.

THE PENNSYLVANIA,
THE NEW QUAKER CITY,
THE GIRARD,
THE CONTINENTAL,
THE GREAT AMERICAN,
THE NEW DEPARTURE,
THE WESTFIELD.

SUPPLEE HARDWARE CO.,
Market and Fifth Streets, **Philadelphia.**

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"There Are Others," But not the Genuine, ALL Imitations.



THE ONLY ORIGINAL

WOODROUGH & McPARLIN (CINCINNATI) PLASTERING TROWEL

——IS MFD. BY——

The National Saw Co., General Office: NEWARK, N. J.

"DUPLEX" WROUGHT BUTTS

Wrought Steel
Wrought Bronze
All Sizes and
All Finishes.

These Butts are better than the ordinary kinds. Made only by

READING HARDWARE COMPANY,

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Factories, READING, PA.

KOHLER'S CURRY COMBS

MAGIC,
HUMANE,
SHEDDER,
FLEXIBLE BACK,



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A1-A2-A3 Should be in every store. Write for Catalogue.

We solicit your orders. . . F. E. KOHLER & CO., CANTON, OHIO, U. S. A.



WAGON UMBRELLAS and BUGGY CANOPIES.

Everything in that line.
Our motto: "Keep a-goin'."
Especial attention invited to

Sprague's Patent Giant Frame Wagon Umbrella.

It is the Strongest Umbrella on the globe.
Write to us, and let us prove it.

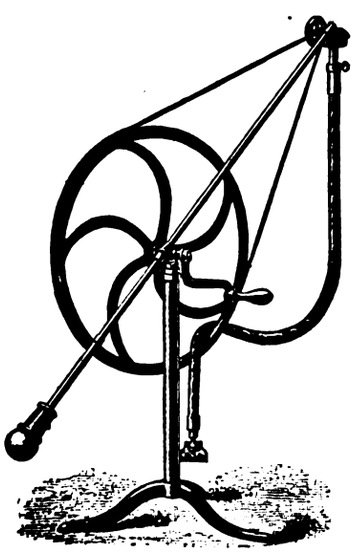
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Norwalk, Ohio.



ECONOMIZE.

SHELF BOXES { MADE TO ORDER. ESTIMATES FURNISHED.

HENRY H. SHEIP & CO.,
Columbia Ave. and Randolph St.,
PHILADELPHIA.



IMMENSE REDUCTION IN PRICES.

"Model B" reduced from $35 00 to $20 00; "Model E" from $25 00 to $15.00. Two cutters with each machine. Order direct, or from any dealer or agent. . . . .

OVER 2000 MACHINES SOLD IN SIX MONTHS.

1000 Machines and 10,000 Cutters in Stock.

Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . .

——ADVANCE ORDER FOR 3000 IN EUROPE ALONE.

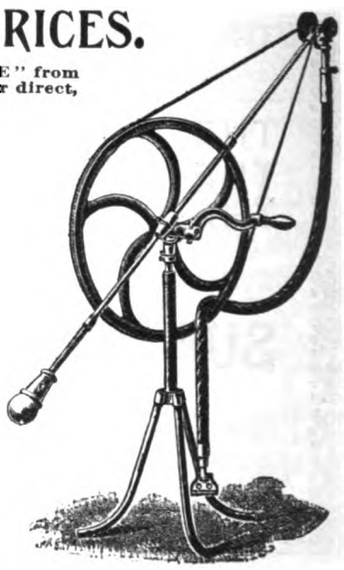
. . *CATALOGUE SENT FREE TO ALL* . .

SHOWING OUR DIFFERENT STYLES OF

Steam, Electric, Foot and Hand Power——

HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,
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A GOOD THING.

IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.

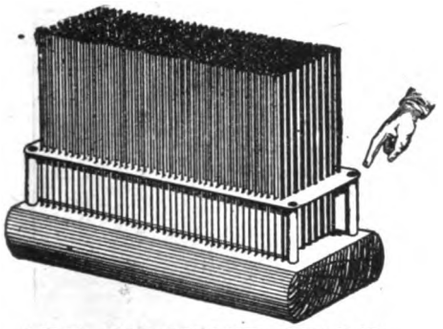


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SOLE MANUFACTURERS,

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"IRON CLAD."



ALL MACHINE MADE.

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THIS STRUCTURE? WHAT'S IT FOR?

Well, it gives surprising durability!

Our goods are Guaranteed unsurpassed in Durability, Workmanship, Material.

Their elegance attracts the eye at once.

. . . *FOR FOUNDRIES, PAINTERS, ROOFERS, ETC.* .

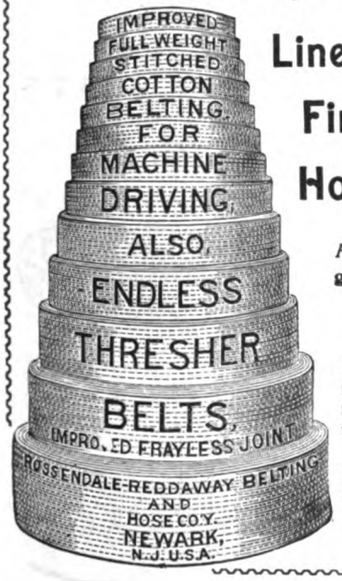
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THE BUCHEL BRUSH NOVELTY CO.,

Mention "HARDWARE." NEW ORLEANS, LA.

THE ROSSENDALE - REDDAWAY BELTING & HOSE CO.,

Newark, N. J., U. S. A.



Linen Fire Hose

All grades.

Made to meet requirements of Underwriters.

Sterling Emery Wheel Mfg. Co.,

MANUFACTURERS OF

Sterling and Advance Emery and Corundum Wheels,

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THEO. M. HASS,

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Fancy Brass Goods, Plain and Embossed Borders, Locks, Hinges, Catches, Clasps and Trimmings, for Albums, Books and Fancy Boxes.

Goods to Order a Specialty. Dies and Tools.

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PROGRESSIVE AND ENTERPRISING.

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Crescent Emery Mills Co.

MANUFACTURERS OF

EMERY & ABRASIVE MATERIALS.

EMERY WHEELS.
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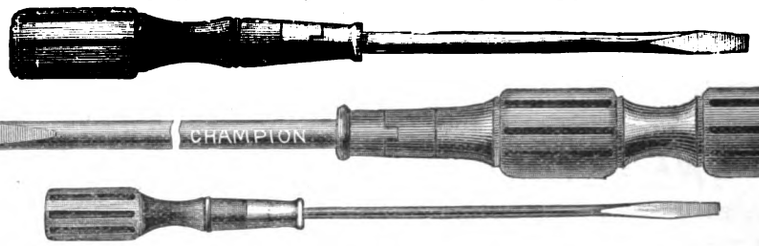
OSCAWANA, N. Y.

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CARPENTERS AND MACHINISTS' TOOLS.

TOWER'S CHAMPION SCREW DRIVERS.

Machinists', Cabinet and in sets.



See that the word "CHAMPION" is on each Screw Driver.

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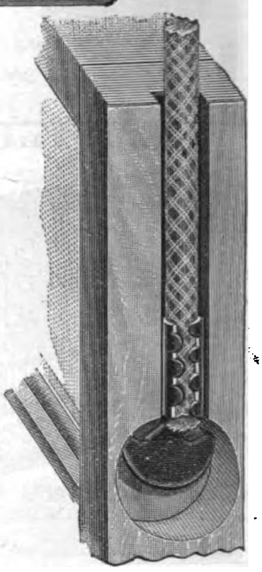


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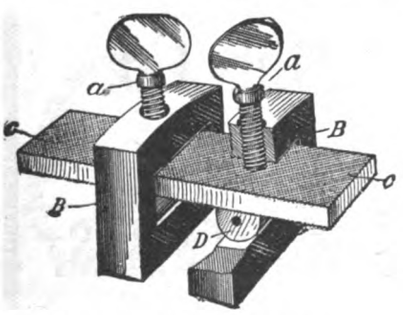
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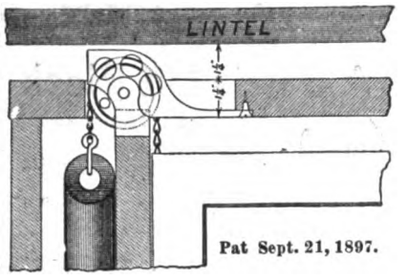
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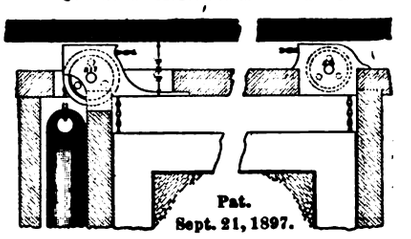
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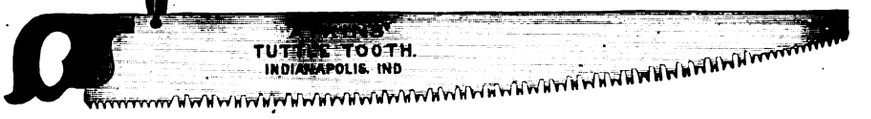
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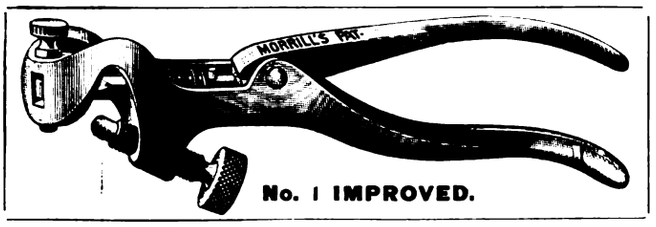
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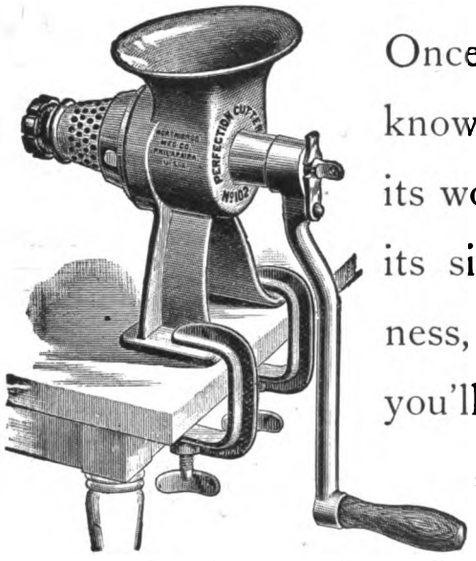
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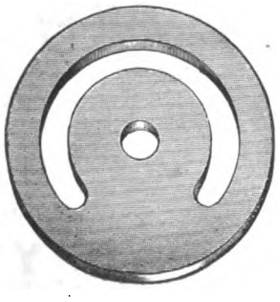
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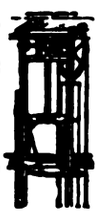
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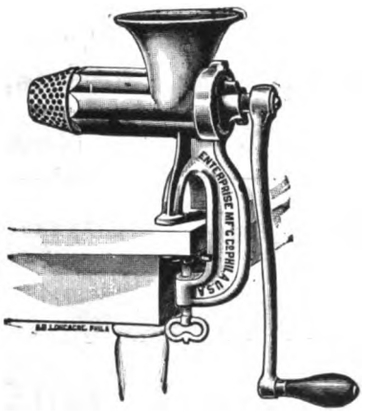
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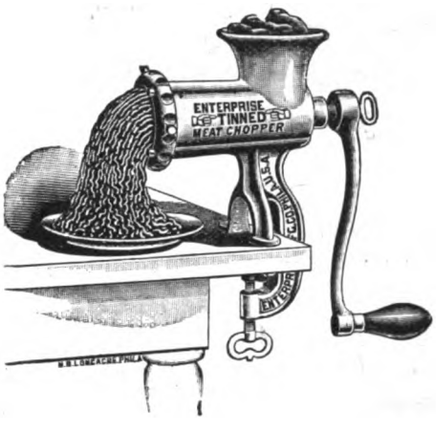


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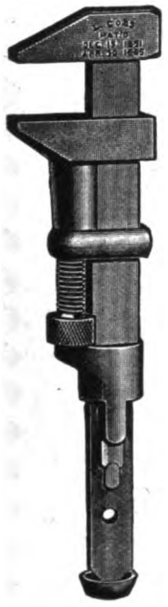
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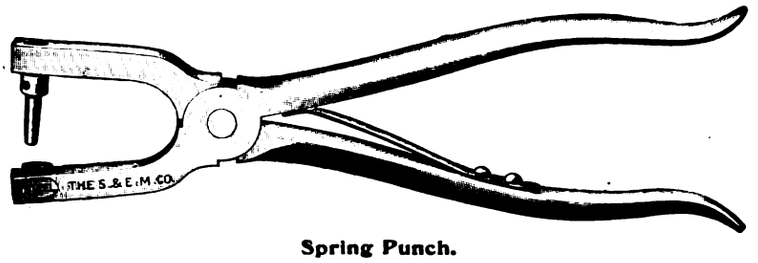
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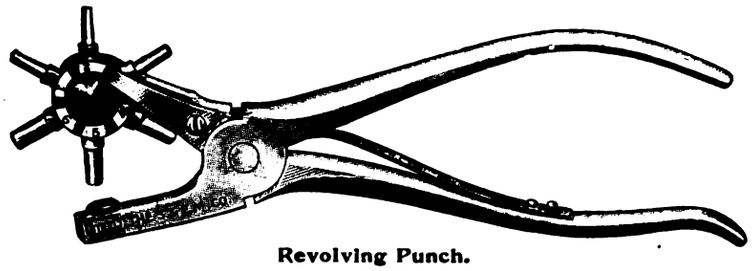
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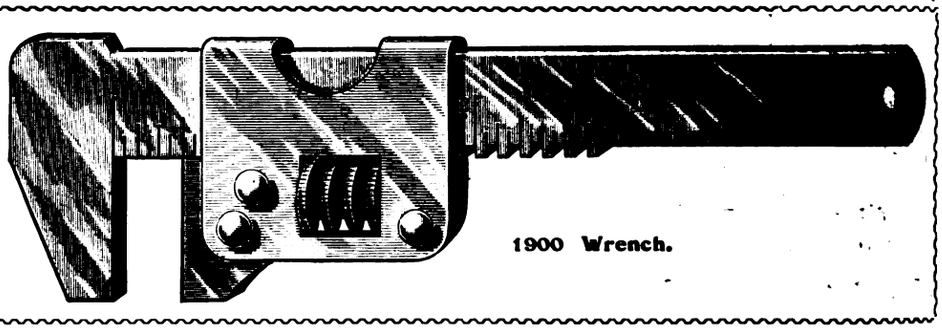
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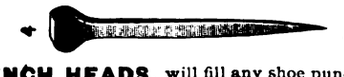
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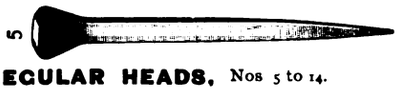
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HARDWARE

VOL. XVI. DECEMBER 25, 1897. NO. 6.

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Editorial Trade Review.

The air is filled with rumors of trusts and combinations of every description in connection with the Hardware business, from wire rods and nails to axes and edge tools, and including enameled and tinware, and steel tubing companies, bridge makers, sewer pipe manufacturers and many others. All this consolidation is no doubt being effected in order to get as much profit out of next year's business as the predicted prosderity will stand, and if all the anticipations can be realized, this will be the natural result.

Business continues in a fairly progressive condition. The indications are the holiday business that is now being done in all lines is approximately double that of a year ago. Of course, as far as the West is concerned, where wheat and prosperity have gone hand in hand, this was to be expected; but even here in the East, and throughout the country generally, the confident feeling of a prosperous future unloosens the purse-strings and money is willingly distributed by the consumers, making the heart of the retailer glad within him, and the wholesaler feel as though there certainly is a God in Israel.

Notwithstanding the increasing inquiry and willingness to order ahead, nails have only stiffened in quotation without material advance in price. And it will be noticed the shovel manufacturers, in convention assembled, deemed it wisdom of the proper kind to leave well enough alone until the filling of orders becomes more difficult, and the demands of labor for increased compensation gave a reasonable pretext for advanced quotations. Even in the new prices of padlocks, the manufacturers have apparently only attempted to "even up" a price-list which was formed on a scale of discontent which left net prices thirty or forty per cent. higher than obtain at present, which made some numbers reach below the zero of cost.

Household specialties are meeting with a much better demand than has been usual, and manufacturers of such goods are gladly preparing for an increasing business for '98, predicated on this gratifying revival.

A Merry Christmas!

To all the friends of *Hardware*, wherever they may be, we extend, with the sincerest regard, our holiday greetings, accompanied by the wish that affairs with them all may be as bright and pleasant as they are to-day with the journal which they have aided to successfully pursue its course of usefulness to the trade, during the year past.

While inventories and balance-sheets will occupy the attention of the greater majority of our friends during the coming week, we are sure that all will feel justified in laying business aside at this Christmas season, and in giving themselves up to the pleasures and the beneficent gift-giving of this, the most beautiful and open-hearted season of the year.

While the year past has, of course, brought with it certain trials and disappointments, and while affairs with none of us have been, perhaps, just what we could have wished, we still must bear in mind that a certain number of trials and troubles are incidental to human life, and that without them, the world would be a dead monotony, and the chief incentive to development and advance be lacking. Taken as a whole, however, we feel that the year has been filled with substantial pleasures for the present, and with a justification of uew hopes for improved conditions in the near future. We look over the horizon into 1898 with a more hopeful feeling, and a better assurance than has been possible in any recent Christmas, and all the signs pointing toward the future are set at a hopeful range.

This is sufficient to bid us all take heart, and keep up our courage. The surest guarantee of success is not merely to deserve it, but to so conduct ourselves as to command it. In this mood of spirit we should all be prepared to meet the duties and responsibilities of the coming year; and it is with the hope of far better times that *Hardware* to-day extends to all its friends a Merry Christmas and a Happy New Year.

Business Promises Well.

It looks as though a favorable demand for Hardware would keep up through the winter, doubtless arising from the fear that advanced prices will prove the feature of the spring trade, and that little loss would occur on goods ordered now for a possible demand. The fact that the prevailing quotations are of a character to create this feeling of safety is one of the incentives to this happy condition of affairs.

The bicycle makers enter the season early for 1898 business, impressed with the belief that fair prices on standard wheels are essential to stop an unusual competition caused by too large a margin of commission on unreasonable list prices forming a basis for a cost. With the former so-called $100 wheels selling at list-prices of $75 to $50, the trade looks forward to sales largely in excess of those made in '96 and '97, and with a prospect for an export distribution of growing im-

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portance, which the jealousy of our German and English competitors will endeavor to limit, but fail to stop. The American bicycle of to-day has become a creation of mechanical skill, the beautiful lines of which are universally acknowledged and adopted. The lessening of the net profits on this important business will naturally cause the entire trade to seek the hands of such regular dealers as handle lines of other goods, and of this large and influential class the dealers in Hardware form the best distributors of skilled products which rely upon intelligence in the salesman for assurance of success.

The Hardware Dinner of 1898.

The great annual Hardware dinner for 1898 will be given on the evening of Monday, February 21st, at the Hotel Waldorf-Astoria. The dinner committee having the arrangements in charge, under the efficient and experienced management of A. D. Clinch, are making arrangements for a most admirable programme for that evening. The indications are that this will be one of the largest and most successful of the dinners yet given under the auspices of the New York Hardware Club.

Will They Do It?

The following is an official statement as to present purposes and intentions, put forth by the parties who are arranging the great wire combination:

"With the view of largely increasing the export trade in wire, wire nails and other products, and also materially reducing the cost of their manufacture and sale, certain gentlemen, who for many years have been identified with and successful in the business, have, after a careful study of the situation, decided to organize a new corporation, which will immediately engage in these lines, and will also acquire by purchase the properties of the leading manufacturers of wire throughout the United States.

"The new corporation has not yet been organized, but steps will soon be taken for that purpose. The amount of this capital stock will be sufficient to pay for the properties to be acquired, and also to furnish ample funds for doing the business.

"After negotiations covering the period of many months, agreements have been made with the owners of the largest and most prominent class for the purchase of their properties, including lands, buildings, machinery and patents, at prices which are considered reasonable, but which are subject to examination and verification by expert mechanical engineers and accountants.

"Three of the most competent engineers have been selected, and are now examining the different plants, and one of the largest and best known houses of expert accountants in Europe and America are now examining the books and auditing the accounts of the different companies for the purpose of accurately determining their earning capacity. The prices to be paid by the new company will largely depend upon the reports of these experts, but it is believed they will fully justify the prices which have already been named. So soon as the reports have been made and the prices fixed and the titles examined, the purchases will be closed and business commenced by the new company.

"A large portion of the capital stock of the new company will be subscribed by those who are now actively engaged in the business, and who will be personally connected with the management. Arrangements will be made with J. P. Morgan & Co. to underwrite the balance, so that under all contingencies the necessary cash capital shall be forthcoming. When the capital stock is all subscribed, the stockholders will meet, and elect a Boord of Directors, and the latter will designate a President and other officers. It is intended to select officers generally who have the greatest experience, and produce the best results in the manufacture of wire and who will retain large interests.

"There are a few smaller concerns who are desirous of selling their plants to the new company, and it is probable they will be purchased, if offered at fair prices.

"It is not proposed to antagonize the interests of any other manufacturers in any respect, nor to increase the manufacture of steel billets, nor is it the intention to increase prices to the consumer."

Delays in Shipment.

Editor Hardware: In the last preceding issue of *Hardware* there was an article in regard to the delay in shipment by railroad. We read it with a great deal of interest, as we think it is a subject that should be taken up by you in earnest, as there are frequently uncalled-for delays. We think your New York railroads are the ones most to blame. We enclose a bill of lading for your inspection, of a shipment from Manlius, N. Y., when eight days were occupied in bringing the goods to Philadelphia. The time from Providence to Philadelphia is from six to eight days; New Britain, Conn., four to six days: Waterbury, Conn., six to ten days; Millbury, Mass., six to ten days. From Providence you can ship by steamer three days after goods sent by rail, and they will arrive at the same time.

The fault lies, so far as we can ascertain, in the transfer in New York city. Yours truly,

Philadelphia, Dec 21, 1897. "RETAILERS."

There hangs upon the walls of our editorial room to-day a handsomely lllustrated calendar that was not there yesterday. It is to serve as a guideboard during the year 1898, and has been issued by the generous courtesy of the Union Metallic Cartridge Co., New York, and Bridgeport, Conn. As a work of art, it is one of the finest specimens of calendar making that we have seen for a long time. A handsome reproduction in ten colors is given of the original painting by the well-known New York artist, Gilbert Gaul, entitled "Molly Pitcher at the battle of Monmouth." Viewed simply as a work of art, the calendar makes a most attractive adornment.

The new boiler house which is being erected by the Waterbury Buckle Co., Waterbury, Conn., will have a roof of corrugated iron supported on steel trusses. The building is 36 feet wide and about 48 feet long, having brick side walls. Every effort is being made to make this building fireproof. The steel work is being furnished and erected by the Berlin Iron Bridge Co., East Berlin, Conn.

Hardware Terms Illustrated.



"TIN" SCOOP WITH BLACK HANDLE.

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Cards That Catch Trade.

I recently encountered an up-to-the-hour walking advertisement. The sandwichman was a darky. The ad. read: "I'm a shining mark in black. But with all my polish, the stove polish E. N. Ameline & Co. sell puts me in the shade."

A unique feature of window advertising was witnessed at St. Louis. A dealer had transformed his window into a sort of pit, and gathered therein was a family of rodents. About a dozen mouse and rat traps of different patterns, all baited with fragrant cheese, had been placed about the improvised pit. An interesting rodent pantomime was soon in progress. The spectacle attracted crowds upon crowds of passers-by, and there was danger of a blockade. The police were asked to interfere, but so appealing to the humorous sense of the blue coats was this original show that instead of dispersing the crowd they ebowed their way to the "front row" to get the full benefit of the performance. The display opened at 10 o'clock in the forenoon and closed at 3 in the afternoon—at that time all the rodents having yielded to temptation. The merchant says it was the biggest business day he ever had.

A number of travelers were discussing epitaphs en-route by way of pastime. Though sombre, it was an interesting topic, and it ended with a tableau. "If my heirs will be grateful enough to erect a tombstone to my memory," said the manufacturer of tools who lets his advertisement do the talking, he making the sales, "my epitaph shall be 'He Died Advertising.'"

If you "work" a bulletin board, and you are short of bulletins, use this: "Polish up for the holidays. We have the polish, you do the work. It's easy with our mittens, which we give free."

Here's an ad. I ran across: "Keep your nose to the grindstone if you are looking for success. Also, keep your eyes on the grindstone, if you are looking for success. We are grindstone specialists. Are you whetted for this opportunity?"

It is easy to skate into popularity if you can suit in skates. Handle a makeshift skate and you run chances of making an endless number of detractors and trade killers. There's nothing more exasperating than a skate that doesn't fulfil its mission. A good skate is a good advertiser. You can't afford to sell bad skates as good ones no more than you can a trashy wheel for a good one. There's method in skate-selling. If you sell good skates at a close profit, you have the opportunity of making it up during the season by big sales; on the contrary, if you sell ramshackle skates at a large profit, you run the chance of killing your trade for seasons to come. The skater is gregarious. He will certainly denounce you if he is not pleased, to all about him. And slander travels with mile boots. I think I have said enough to enable Mr. Skate Dealer to make his own deductions.

That's the way a saw manufacturer puts it: "He came and saw. When he saw our saws, he saw that other saws were not the saws he wanted. And it's the old saw: 'Look well before you—buy saws.'"

"We got it on files," said the junior to the head bookkeeper. "Well, I should remark," interjected the sales manager, "the order we shipped to Rasptown has just been returned to us, marked 'Refused.'"

A Southern dealer advertises thusly: "I handle the best lumbermen's crayons and carpenter's pencils below Mason and Dixon line. Underline Dixon, bring this ad. to our store, and I'll just know what you want."

Screw up your courage, but never wrench your judgment.

This was catching. The ad. read: "We deal in toys. 'Nough said. Just show this the youngsters, and they'll explain the rest."

Iron-clad rule to our clerks: When you get a customer, nail him. If nails won't hold, spike him.

A Cleveland electrician has put the following plate on the doors of his residence: "Burglars invited to call. You will be well received." In further explanation I might say that his house contains a meshwork of alarms. There are bells galore. The mats are alive with electricity. The door knobs are charged at night. Automatic firearms guard every entrance. Tampering with any window would at once light and adorn the whole house. That's household electricity with a vengeance. It's also Cleveland ingenuity. Look to Cleveland for startling achievements.

Cleveland, Ohio, December 5, 1897. J. B. RINDFLEISCH.

Implement Men Protest.

The annual election of the officers of the Kansas City Implement, Vehicle & Hardware Club was held at the dinner given at the Midland some evenings since. The officers chosen were: President, George M. Moore, of the Kingman-Moore Implement Co.; first vice-president, A. B. Colton, of the Great Western Mfg. Co.; second vice-president, John S. Taft, of the Columbus Buggy Co.; secretary, O. V. Dodge, of the Kansas City Hay Press Co.; treasurer, A. G. Trumbull, of the Trumbull Seed Co.

The executive committee for the next year will be composed of C. G. Newman, chairman; John Conover, J. S. Welsh, F. L. Kaufman and R. B. Crawford.

The club criticized very sharply the recent ruling of the railroads that no passengers were to be carried on freight trains, and instructed the transportation committee to take the matter up at once and file with the officials a strong protest, showing that such a ruling would be unjust to the wholesale business. The members said their traveling men, in making small places, figured on getting in or out, or both, on freight trains, and in this way saved great time and delays. If the ruling was not reversed it would seriously interfere with business and largely increase the expenses of the traveling men.

The club also decided to discourage the use of local checks in making remittances. There is an exchange charged and the wholesaler or jobber must stand it. The club has recently waived the drayage charge for shipments, and in return for that will ask the patrons and members of the Western Retail Association to make remittances by Kansas City or Eastern exchange.

A Hardware Reception.

A reception was tendered in the room of the Hardware Merchants' & Manufacturers' Association, Philadelphia Bourse, by that organization, to E. J. De Hart, of Honeyman, De Hart & Co., Portland, Ore., who was the official representative of the Pacific Coast Hardware & Metal Association to the recent convention of the National Hardware Association. Mr. De Hart has been visiting for business purposes some of the leading manufacturers of Hardware in Philadelphia. He has been accompanied by his wife and daughter, Miss Ella De Hart, who have been the guests of T. James Fernley, secretary-treasurer of the National Hardware Association, at his home, No. 1938 North Twelfth Street.

The Eclipse Refrigerator Works, Burlington, Vt., have sent us an attractive little catalogue showing the Eclipse Cleanable Dry Air Refrigerator, with removable ice-tank, etc. A number of styles and sizes of this attractive article are shown, and the catalogue itself will be sent upon application.

The semi-annual meeting of the Missouri Valley Retail Hardware Dealers' Association was held in Omaha on December 9th. Col. Richards, of Kansas City, occupied the chair. Only routine matters were touched upon, and a dinner was given at the Millard House.

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Stamping Companies Contemplate Consolidation.

For some months efforts have been made by a number of leading manufacturers of stamped, japanned, porcelain-lined and granite enameled ware, to form a gigantic combine of factories, with an aggregate capital of $10,000,000. There are so many details to be attended to in the formation of such a consolidation, which in this instance contemplates the actual purchase of the organizing plants, that it is doubtful if the new corporation can get in operation before February 1st next.

The Niedringhaus Bros., of St. Louis, Mo., who control the St. Louis Stamping Co. and the Granite City (Ill.) Steel Co., are said to be the central figures in the deal. The Niedringhaus plant may well occupy this position, as it is doubtless the largest of its kind in the world. It employs 2000 men and represents an investment of $3,000,000 capital. Niedringhaus & Bro. commenced business in a small way in 1858, and incorporated the St. Louis Stamping Co. in 1871, at which time they moved to the present well equipped plant.

The firms which are claimed will be in the contemplated consolidation are: The St. Louis Stamping Co.; Matthai, Ingram & Co., of Baltimore, Md.; Kieckhefer Bros., of Milwaukee, Wis.; the Bellaire Stamping Co., of Harvey, Ill.; the Central Stamping Co., American Stamping Co., Haberman Mfg. Co. and Iron Clad Mfg. Co., of this city.

It is said the desire to make this combination originated in a singular way. A party of Eastern capitalists, having in view the opportunities which will be given our manufacturers in 1898 in the extension of our export trade, visited the Niedringhaus works, the magnitude of which excited their admiration and astonishment. A proposition to purchase the plant was the original motive of the visit, but the greater advantages of a combine of the leading companies, which they believed was among the possibilities, caused them to abandon all idea of purchase. Every move, as is customary in making so important a corporate change, is shrouded in mystery, and affirmations and denials lack definitenesss. President James, of the Central Stamping Co., is credited with saying:

"Several of us have been trying to arrange plans to consolidate in order that our work may be made cheaper, and that our factories may be conducted at less expense. Our plan, however, was merely to form a stock company, which would buy up the stock of the present individual companies. A number of companies have been discussed, and there has been correspondence with several, but as yet absolutely nothing definite has been done. I can neither say that the project will go through in the immediate future, nor that it will ever be realized. There are so many stamping companies that any attempt to form a trust or combine for controlling the market would be absurd. The combined capital stock of all the proposed companies, counting even those which have merely been discussed, would not aggregate anything like $25,000,000. Mr. Niedringhaus was here, but a statement that any combination has been effected is untrue."

This statement is supplemented by that of State Senator George W. Ketcham, secretary and treasurer of the company, who declared that as yet nothing definite has been settled. He said that negotiations are still under way, and that so far as he understands, it is the intention to include in the combination sheet iron mills. tin-plate mills, and enameling and stamping companies.

A Maine Forest in New York.

The proposed exhibit of the region around Moosehead Lake and others reached by the Bangor & Aroostook Railroad, now being arranged for by Granville M. Gray, may well be looked for with keen interest upon the part of visitors to the Sportsmen's Exposition in January, at Madison Square Garden. It will be, in fact, nothing more or less than a breeze from the Maine woods, laden with the scent of the pine and fir, and giving one a glimpse of "life as it is lived" by the camper-out. The plans include the transportation to the Garden from Maine of not only a complete outfit for camping, the sportsmen's tent, the fly for a "dining hall," the guides' tent, all put up just exactly as they would be in the heart of the Maine woods, but added attractions will be given the exhibit by the erection in the Garden of a veritable Maine forest in miniature, the trees, the mosses which cover the ground, the occasional moss-covered rocks, the wild creatures half hidden by the shrubbery and "woods" of the back-ground, all will have come from Maine to add interest to this exhibit and make it realistic. Even the half-burned logs which form the dead embers of the camp fire, will have been rescued from the oblivion of some long-forgotten camping place, that the actual scene may be as like to the real spot represented as possible. On a knoll near the tent, resting easily upon the bed of ferns, carelessly dropped there for them to rest upon, will be a handsome string of the trout that have made Maine famous, lying just where, in his eagerness to step aside for a moment, the victorious angler had laid them and his tackle as he has brought them from the water.

The American Axe & Tool Co.

The American Axe & Tool Co., No. 253 Broadway, New York, and Beaver Falls, Pa., owning and operating a large number of axe and tool making plants throughout the country, have decided it would be greatly to the interest of their industry, if the various plants could be consolidated in some central location in the Pittsburg district. The principal object in consolidating their separate establishments would be a more economic system of manufacturing, a concentration of working forces, and under a central management a complete reorganization of office staffs. In addition to these considerations there would result a great saving of freight on material used in the works, nearly all of which is obtainable in Pittsburg and vicinity.

It was at first thought that Homestead would prove a most eligible location for the purpose, but naturally, offers of equally suitable locations possessing even greater advantages, make possible a different site for the extensive works contemplated by the fifteen companies under their control, the present plant of which will be abandoned when the new works have been erected and placed in operation. The various companies comprising this present organization are as follows: American Axe & Tool Co., Beaver Falls, Pa.; Robert Mann & Sons, Mill Hall, Pa.; J. Fearon Mann, Bellefonte, Pa.; Johnsonville Axe Mfg. Co., Johnsonville, N. Y.; Romer Bros. Mfg. Co., Gowanda, N. Y.; Douglas Axe Mfg. Co., East Douglas, Mass.; H. Knickerbacker & Co., Ballston Spa, N. Y.; Thos. R. Mann & Co., Mill Hall, Pa.; William Mann, Jr. & Co., Lewistown, Pa.: Powell Tool Co., Cleveland, Ohio; Hubbard & Blake Mfg. Co., Oakland, Me.; Jamestown Axe Co., Jamestown, N.Y.; Underhill Edge Tool Co., Nashua, N. H.; Francis Axe Co., Buffalo, N. Y.

The Bissell Carpet Sweeper Co., Grand Rapids, Mich., and New York, have sent as a handsome lithograph hanger, showing two Michigan beauties, the one in a pink shirt-waist, representing a fair daughter of that State, and the other, one of her choicest companions, Bissell's Cyco-Bearing Grand Rapids Carpet Sweeper. Attached to this hanger is a special placard stating that these goods "Make Good Christmas Gifts."

The George Tritch Hardware Co., Denver, Colo., will, on January 1st, add to their already extensive stock, a complete line of sporting goods.

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Miller, Sloss & Scott's New Catalogue.

We have received from Miller, Sloss & Scott, San Francisco, Cal., New York offices, Nos. 185 and 187 Stewart building, a copy of their new general catalogue, recently issued to their customers. It is a magnificent volume and, including new pages sent, is about 1300 pages, 9x11½ inches in size, printed on excellent paper, with good illustrations and graphic descriptions, bound in half-morocco, with corners of the same, has colored edges, and a cover gold embossed with their address Like other large catalogues issued by the representative Hardware houses of the country, the volume is intended to cover almost every possible demand in a range of the widest scope.

Incorporated in its contents at the end of the catalogue are a number of pages giving estimated weights to foot on iron and steel of the various shapes, square, round and octagon, and weights to the hundred on nuts, bolts, spikes, rivets, etc., which will be found useful to their customers.

The catalogue is planned to consist of seven departments: No. 1, tools and farming implements; No. 2, locks, latches and builders' Hardware; No. 3, miscellaneous Hardware; No. 4, pocket and table cutlery, razors, shears, plated ware, etc.; No. 5, guns, pistols, ammunition, fishing tackle, etc.; No. 6, brass and iron valves and fittings, steam, gas and water supplies; No. 7, iron, steel, rails. metals, cast and wrought pipe, tubes, etc.

They adopt a sensible plan in the catalogue, of following manufacturers' lists and numbers wherever practicable, and where the manufacturers have failed to furnish the same, the goods are provided by the compiler with original numbers in order to facilitate ordering and avoiding errors, and the same time making lists for same that would indicate comparative values.

Owing to the many changes in prices, present and prospective, no "Discount Sheet" accompanies the catalogue; preference being given to direct inquiries, quotations given to which are more apt to be up to date. A very important feature in the catalogue is a carefully constructed index of nearly forty pages, in which the various articles are placed under every possible classification to make a quick reference.

Taken all in all, the volume reflects great credit upon the careful work of the compiler, and the mechanical execution in all its details deserves the praise due to conscientious work on the part of the printers, the Hicks-Judd Co., of San Francisco.

Failure of an Old Hardware Firm.

The trade was somewhat surprised some days since to learn that after an existence of twelve years as one of the largest wholesale Hardware houses in the West, the firm of Horton, Gilmore, McWilliams & Co., Chicago, had passed into the hands of the Illinois Trust & Savings Bank, as assignee. The statement filed in the court estimated the liabilities at $210,000, and the assets at $300,000. The latter consist of $150,000 in outstanding accounts and the sum received from the sale recently to Hibbard, Spencer, Bartlett & Co. of the company's stock. While the purchase price is not definitely known to others than the principals in the transaction, and their representatives, it is thought to be in the neighborhood of $150,000. This action, it is said, was taken because the members of the firm preferred to dispose of the stock under their personal supervision rather than to have it sold through an assignee.

The officers of the corporation are: William Gilmore, president; J. Newton Cole, vice president; James W. McWilliams, secretary and treasurer. There are a number of employees of the house who have been there for a number of years. The encroachment into the Hardware business by concerns engaged in other lines has affected the general Hardware trade to a large extent lately, and the insolvent concern suffered from this cause.

For twelve years the corporation has been in business on Lake Street, in its present location, and it probably had the largest city trade of any of the wholesale Hardware houses in business here. It was the successor of the old firm of William Blair & Co., one of the pioneer concerns in the Hardware business in Chicago. With the assignment the firm ceased business permanently, and it was announced that it would not resume.

The Excelsior Carpet Stretcher.

Richard W. Montross, Galien, Mich., will, when the sum total of human achievement is reckoned up, stand credited upon the books with having saved on behalf of suffering humanity an endless amount of labor, back-breaking and profanity. The thousands and thousands of Excelsior Carpet Stretchers with Tack Hammer Combined, which he has scattered all over the face of the civilived globe during the several years past, furnish the means by which the above admirable record has been made. An illustration of this excellent article will be found upon page 45 of this issue, and its method of operation can be understood at a glance. The improved stretcher and hammer has been sold by canvassing agents all over the United States, and the manufacturer is loaded with endorsements from thousands of users. The Hardware trade has handled it largely for a number of years, especially in the West, where it is safe to say that a Hardware catalogue without the Excelsior is an exception. The stretchers are packed in boxes of one, two, three and five dozen, and in each box are found display cards and special circulars describing the article. The price is $6 per dozen, 25 per cent. off. Mr. Montross will be pleased to furnish further information in regard to this article. In a statement of its merits, he says: "Saves labor, time, temper, sore fingers, backaches, etc., and is a great preventative of profanity. It is a little contrivance easily planted in any required position where it will stretch the carpet beautifully and evenly and hold it secure while the operator detaches the hammer and drives the tacks. A mere glance at the illustration will instantly recall to the minds of all who have ever put down a carpet in the 'old knee, hand and back-breaking way,' the many aches and perplexities of their own experience. It is inexpensive and so simple and easy of operation that a child can manipulate it. Its merits are proved. It's needed, hence it sells rapidly and gives satisfaction. It weighs only one and one-half pounds, and is so constructed that it can be in an instant as conveniently as a pocket knife folded up into a small compass."

Eastern Branch of John Lonn & Sons Co.

The Allerton Clarke Co., Nos. 97 Chambers and 79 Reade Streets, New York, have assumed the Eastern branch of John Lonn & Sons Co., La Porte, Ind., the manufacturers of the Crown and Cyrus brands of Bicycles. They will control territory covering the Eastern, Middle and Southern States.

The Crown Cycle, the list price of which is placed at $50, is provided with flush joints, arch crowns, Fauber cranks, Kelly handle bars and Perry-Humber chains. Saddles are given of any color corresponding with the color of frame. A choice of any standard tire will be permitted with this wheel. Other wheels will be included in the assortment made by the company, listing at $40 and $35, and varying somewhat in a few points of construction, the $40 wheel having cranks of the two-piece pattern, and the $35 wheel having outside flanged instead of flush connection.

It satisfies customers—Enameline.

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A. Featherstone & Co.

A. Featherstone & Co., Chicago, Ill., who are among the leading bicycle manufacturers of Chicago, have recently opened an Eastern branch at No. 32 Warren Street, New York, which is under the management of J. C. Matlock, who gained his experience while manager of the bicycle department of Simmons Hardware Co., St. Louis, Mo., which establishment he left to assume charge of this important branch house. Coming from the West, credited with all the elements that go to form successful men, he will meet a welcome from the trade which will inspire him with confidence, fill him with ambition and provide him with an ample field for his industrious energy.

A. Featherstone & Co., although incorporated in 1893, have been manufacturers of bicycles since 1871, and consequently rank among the oldest makers of this important product. They have a paid-in capital of $500,000, and manufacture the bicycles long and favorably known under the names of the Road King and Road Queen, Duke and Duchess, Prince and Princess, Baron and Baroness.

An advance catalogue of their 1898 models has just been issued by the company, and will be mailed to the trade at once. Their more complete and elaborate catalogue, they state, it is impossible to have ready before January 15, 1898.

The "Excelsior" Cotton Stitched Belting.

The Rossendale-Reddaway Belting & Hose Co., New ark, N. J., the manufacturers of the well-known Came Hair Belting, after repeated and successful experiments, intend placing upon the market shortly a new variety of belting, to be known under the name of "Excelsior." The characteristics of this new belt, which is an improvement in an important sense on the stitched cotton belts now in use, consist in the introduction of a new substance in one ply or layer of the belt, the substance being absolutely unaffected by moisture; this enables the manufacturers to furnish a belt that will not be subject to the objectionable tightening and loosening at present inseparable from cotton stitched belts generally, and which creates such trouble with machinery when too tight, and produces a belt entirely too loose when dry. This belt, it is claimed, will be almost impervious to moisture.

Another feature, equally as important as the foregoing, is that the new material, under tests, reduces the stretch of the belt from 33⅓ per cent. to less than 10 per cent.; this, as may well be surmised, greatly enhances the value of the "Excelsior" belt by comparison with others on the market.

Discovery of Dynamite.

Alfred Nobel, who recently died at San Remo, and who has bequeathed the revenue from almost his entire vas fortune to be distributed annually in prizes for scientific research and invention, was born at Stockholm in 1833. He was the youngest of three brothers and the son of a talented mechanic who at the time of Alfred's birth was established in St. Petersburg. In 1860 his father founded a factory for the manufacture of nitro-glycerine, in which Alfred Nobel was employed. The accidents caused by the explosions of nitro-glycerine in its liquid form occurred so frequently, that the Russian Government actually thought of prohibiting the manufacture of this precious substance, without which modern industry could hardly get along. In 1867 Alfred Nobel discovered a process of solidifying nitro-glycerine with surprising ease. The idea of this discovery was suggested to him by a fortunate occurrence. A vessel filled with nitro-glycerine was cracked during transportation, and the liquid had spread in the quartz-sand which was packed around the vessel. The nitro-glycerine had amalgamated with the packing, the liquid retaining the solid parts by means of capillary action in such a way as to constitute a solid substance, which, while showing all the properties of nitro-glycerine, could be handled without danger. Dynamite was thus discovered, and the development of its manufacture was surprisingly rapid. In 1878 Alfred Nobel made another discovery, almost as important as the first. He then succeeded in transforming nitro-glycerine into a gelatinous substance as solid as gun cotton, but with the immense advantage that it was not as subject to decomposition nor to spontaneous combustion, and that its explosive power was considerably higher than that of previously invented explosive substances. Within the last twenty years Alfred Nobel has also taken great interest in the development of the oil industry in the Caucasus. His industrial enterprises earned for him a large fortune, which he used very liberally, particularly in the endowment of scientific institutions and research.—*Exchange.*

"Practically Unbreakable."

"Did it ever occur to you," it is asked, "that bronze and brass are soft metals, and when used in spring hinges for heavy doors the joints soon give way? The Bommer Spring Hinges, both bronze and brass, in all finishes, have a continuous steel core or skeleton from end to end, and the entire wear is thrown on this steel interior, the wear not in the least affecting the bronze or brass exterior. Spring hinges do the heaviest and hardest duty of any Hardware used in a building, and it pays to get the best and that only." "Practically unbreakable," says the World's Fair award on Bommer Spring Hinges. They can be obtained from all Hardware dealers who serve the best interests of their customers.

A great many traveling salesmen take occasion when in New York city to call at the tower of the Madison Square Garden. They are interested in the Commercial Travelers Fair, which is to be held at the Garden on February 28 to March 5, 1898. The commercial travelers recently held a harmonious and enthusiastic convention at Binghamton, and unanimously voted to make the Fair succeed. Mr. Chasseaud was appointed to manage the Fair and all the travelers agreed to back him up. The officers of the Association having the Home in its charge made a financial report that aroused extra enthusiasm, and inspired the Home builders with renewed courage. The officers of the Commercial Travelers Fair are: President, Chauncey M. Depew; vice-presidents, Governor Frank S. Black and Mayor William L. Strong; secretary, R G. Dun, and treasurer, Mayor George E. Green of Binghamton. Mrs. T. C. Platt is the chairman of the Women's Committee. Travelers in many parts of the country are sending in to Manager Chasseaud pledges of cash New Year gifts and in hotels everywhere are being placed glass collection boxes in the shape of miniature travelers' trunks. The Buffalo Hotel Men's Association has just pledged its hearty support to the Fair, and other hotel organizations will aid.

D. R. Harvey, who for several years past has held the position of manager of the bicycle department of the John P. Lovell Arms Co., Boston, Mass,, and who has recently severed his connection with this firm to accept the general management of the new store to be opened at No. 408 Washington, Street Boston, by the Iver Johnson Sporting Goods Co., was pleasantly surprised on the afternoon of his last day with the firm. At about 5:30 P.M., Mr. Harvey's associates began to gather in his office, and when all were present, A. M. Hall, in behalf of the friends, made a few appropriate remarks, and presented Mr. Harvey with a handsome diamond watch charm. Mr. Harvey was somewhat taken aback, but rose manfully to the occasion, and in well chosen word thanked them for the charm and the many good wishes which accompanied it. Mr. Harvey is well known to the bicycle trade of New England, and has the best wishes of a host of friends for his success.

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Recent Trade Publications.

John H. Graham & Co., No. 113 Chambers Street, New York, have recently issued a very complete catalogue of bicycle sundries and parts, made up from the manufactures of the following firms and companies, for whom they are sole selling agents: The New Departure Bell Co., the Jos. Lucas & Son Co., the Slaymaker, Barry Co., Lane Bros., E. Jenckes Mfg. Co., G. W. Cole & Co., P. Lowentraut, Downey Bros., and Chantrell Tool Co. Among the important specialties which fill the forty pages of the catalogue, the Automatic Bicycle Brake and the large assortment of bicycle bells of the New Departure Bell Co. are prominently illustrated and described, and, in addition, the New Cyclometer and the Sykl Foot Pump add to its attractions. Included in its contents, which form a varied assortment of useful appliances, we notice lamps and lamp brackets, bicycle locks, wood handle bars and clips, cycle wrenches and cycle hangers, lubricants, toe clips, bicycle holders and stands, luggage and parcel carriers, saddles and tool bags. The catalogue is well printed on good paper, and should be in the hands of all dealers, to whom it will be sent upon request.

The Lancaster Machine & Knife Works, Lancaster, N. Y., have issued a very attractive catalogue for 1898, finely printed upon heavy paper and bound in black covers. This presents, both in illustration and description, their lines of plain and patent ratchet bit-braces, butchers' and packing-house cleavers, and machine knives of every description. They introduce themselves by the statement: "We propose to merit your patronage by manufacturing goods of the highest class only, using the best material and finishing second to none." They declare that all their goods are fully warranted, and that every article is carefully inspected before leaving the factory. Special attention is called to their Lancaster ratchets, full illustration and description of which appeared in the issue of *Hardware* last preceding. An illustration of one of their articles appears upon every page, with sizes and prices. They make a specialty of butchers' cleavers, and a very fine line is shown in this publication.

Simmons Hardware Co., St. Louis, Mo., are distrib uting to their trade a pamphlet of 110 pages, 9x4½ inches, with flexible cover, intended to be used as a want book. With the exception of a few pages in the front and back of the book, which gives general information, the pages are all ruled so the dealer can note his wants as they occur, in order to find it convenient to make frequent orders, which is the object of its distribution. Interspersed throughout the book are some wise and pithy business maxims, which will be read with interest by those who are fortunate enough to receive the same.

W. C. Heller & Co., Montclair, N. J., are sending their friends an unique reminder illustrating and showing the Heller Steel Hardware Shelf Boxes, so distinctly that a dealer can see just what the article is in detail at a glance. They announce that these boxes are made any size desired, and a sample of the same will be mailed on receipt of 25 cents.

The National Horse Nail Co., Vergennes, Vt. have published a calendar for 1898, in colors.

As France taxes bicycles and tricycles, the number of machines used in the country is known exactly. On January 1, 1897, there were 329,814 taxed, an increase of nearly 74,000 over 1895, which had shown an increase of 53,000 over the preceding year. The revenue obtained in 1896 was 3,272,339 francs. Paris department, the Seine, heads the list with 62,892 bicycles, paying a tax of 626,916 francs. —*Scientific American.*

Smokeless Powder Pistol.

The Mannlicher pistol, made in Berlin, described in the *New York Times* recently, is not the only small arm brought to this country from Europe in which the smokeless powder is used. The Borchardt automatic repeating pistol was tested in target firing at Creedmoor on September 11 by Col. McCoskry Butt, of the Twelfth Regiment, and Major N. B. Thurston, at 25, 100 and 200 yards. Eight shots were fired with it in fifteen seconds by Major Thurston at 100 yards, and his score was seven bulls-eyes and one "centre," an achievement as a whole which was said to be unprecedented.

The Borchardt pistol is of peculiar shape, having a long overhang behind what is usually called the butt, and a magazine within the latter which will contain eight cartridges. It differs in its mechanism from the Mannlicher pistol most noticeably in the fact that the automatic action is entirely resilient, and not at all dependent upon the expansion of gas.

The rear end of the weapon is called the grip. The breech-block is driven back into this by the recoil caused by the discharge, while at the same instant the lifting spring within the magazine pushes out the emptied cartridge shell. A powerful double spring in the grip thrusts the breech-block forward again, and the latter carries into position in the breech of the barrel a fresh cartridge ready to be fired. By the same movement the firing bolt is cocked. The eight cartridges are all placed in the magazine at once, being held together in a box-like "charger," which drops from the magazine as soon as the last cartridge which it contained has been used. All the functions of the mechanism are automatic, excepting, of course, the pulling of the trigger.

The weight of the Borchardt pistol is two pounds and fifteen ounces, with the magazine charged. The calibre is not qnite .31. The weight of the weapon and its somewhat awkward shape are the chief objections urged against it. It is contended, however, that the weight is so well balanced when the pistol is held in position for firing that it assists the aim and steadies the hand. By the use of a large attachable stock it can be converted, like the Mannlicher pistol, into a small carbine at a moment's notice. There is a metallic sight at the extreme end of the grip and another is at the usual place near the muzzle. The long distance between them facilitates accuracy of aim. In use as a cavalry weapon the overhang, it is said, would be a valuable shield to the wrist of the pistol arm, protecting it from saber strokes and consequent disablement.

A Lesson in Economy.

Consul Germain writes from Zurich, in regard to a plan recently introduced in the public schools of several European cities. In Brussels, the children attending public schools were requested by their teachers to gather up, on their way to and from the school, all such apparently valueless objects as old metallic bottle capsules, tin foil, tin cans, paint tubes, refuse metals, etc., and deliver their collections daily to their respective teachers.

In the period from January 1 to October 1, 1895, or within eight months, the following amounts were collected: Tin foil, 875 kilogrammes (1925 pounds); old paint tubes, 100 kilogrammes (220 pounds); bottle capsules, 2007 kilogrammes (4415 pounds); scraps of metal, 555 kilogrammes (1221 pounds); total 3537 kilogrammes (7781 pounds). This apparent rubbish was disposed of and the proceeds applied so as to completely clothe 500 poor children and send 90 sick ones to recuperation colonies, and there still remained quite a balance, which was distributed among the poor sick of the city.

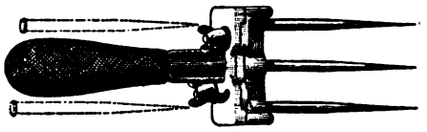
Louis XIV. drank the first cup of coffee made in France.

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NEW GOODS AND SPECIALTIES.

Parker Ice Tools.

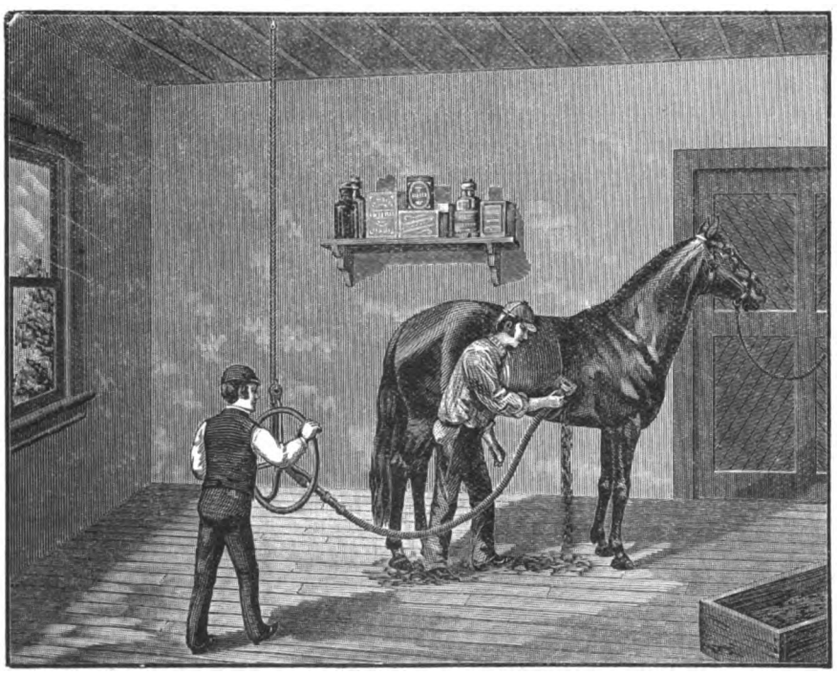
The Parker Ice Tool Co., Worcester, Mass., are manufacturing a line of Ice Tools, one form of which is herewith shown. In this combination tool is the shave, which



can be changed into an awl. The illustration here shown carries its own explanation, but a catalogue fully describing the same will be sent upon application. The company announce that their crushers for ice cream manufacturers are being successfully sold all over the country.

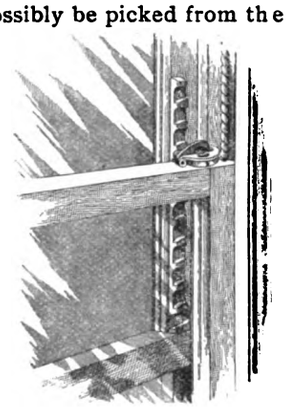
The New '98 Chicago Clipping Machine.

The Chicago Flexible Shaft Co., Nos. 158 and 160 Huron Street, Chicago, Ill., have brought out a new clipping machine herewith illustrated. The company state that it is sold at such a low price it competes with hand clippers, and is therefore an article which Hardware merchants can readily carry in stock. The machine is made as light as possible, and yet in a most thorough manner, to insure durability and easy operation. It is designed to be suspended from the ceiling by a braided rope which passes through a screw eye; the free end is passed under an eccentric pulley journaled in the frame, which from its peculiar construction locks it at any point desired by simply letting go of the rope. This feature will be much appreciated, as it accommodates the apparatus to the height of the operator instantaneously. The large balance wheel has teeth on the inner edge which engage with a small fibre pinion, which in turn transmits the motion through flexible shaft to the knives. The balance wheel turns on roller bearings; the flexible shaft is of the solid core type, is made of tempered steel, and runs in an oil-tempered sheath, the end of which near the knives is of larger diameter than the balance. This construction permits the introduction of anti-frictional bearings of fibre, which keep the core central in the case (or sheath) and reduce friction to practically nothing. The diameter of the balance wheel is 18 inches, while the fibre pinion is 1 inch, so that a speed of 1800 revolutions per minute can be obtained for the clipping machinery. The standard length in which the flexible shaft is furnished is 5 feet. The knives are dust-proof. The machine is handsomely enameled in red and bottle green, and when set up in a show window attracts much attention.



Elting Sash Lock.

Irving Elting & Co., Saugerties, N. Y., are very successfully placing upon the market the Elting Sash Lock, an illustration of which we herewith show. In description of the same, they declare that this sash lock is so constructed that it cannot possibly be picked from the outside; and, as



shown in illustration, it is secured to the window in such a manner that, if an attempt be made to pry it off, the strain is received against the side of the screws holding keeper to the upper stile, at the same time keeping lock in its correct position on the lower sash, thereby rendering entrance by such means impossible. It supports and locks the sashes while either raised or lowered, or both, in half-inch openings up to the full limit of safety, and holds them snugly in the frame, preventing rattling, while its free action is not in the least affected by looseness, shrinkage or sagging of the sashes. In locking the closed window it has a tendency to lift the upper and force down the lower sash, and draws them tighter together. Where windows have been in use for some time, it is not infrequently found that owing to swelling of the sashes, or an imperfect balance, the meeting-rails cannot be brought flush, a defect that is entirely overcome with this lock by simply raising keeper sufficiently, no underlaying being necessary. It is made in the simplest and most durable manner, has no springs and cannot get out of order. A sample lock will be prepaid to any address for 30 cents. Address Irving Elting & Co., Saugerties, N. Y.

Burr Safety Lift Block.

The accompanying illustrations show a new rope block of interest to users of such appliances. In this block are combined many of the advantages of chain blocks without the disadvantages of some of these. The illustration on page 14 shows the form of block used in low power hoists; the large illustration, Fig. 1, shows the construction used on blocks of high power, or those having a ratio of 1 to 7. Fig. 2 represents the Safety Lift with side plate removed, showing the action of the block when "open"

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and hoisting a load. When the rope is pulled to lift the load the rear end of the rock lever is pulled down, the sheave rocks carrying the hoisting rope away from the lock, and the hoisting is done the same as with a common block. Fig. 3 shows the Safety Lift with side plate removed, showing action of block when "closed" or locked. The hoisting rope being released, the load pulls down the front arm of the lever, the sheave swings forward and clamps the rope against the lock, securely sustaining the load at any point desired. The heavier the load the greater the pressure to hold the rope. To lower load when lower block is out of reach, grasp the hoisting rope securely before pulling on the trip rope. Hold rear end of lever down by pulling on the trip rope and allow the hoisting rope to slip back through the other hand. To lower load when lower block can be reached, pull down upon part of rope (marked No. 4 in Fig. 2) passing between block and central sheave in

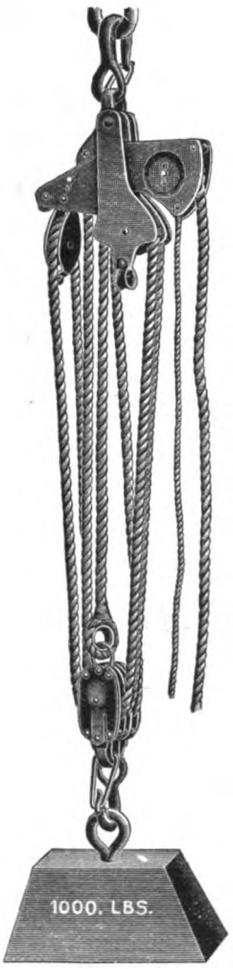
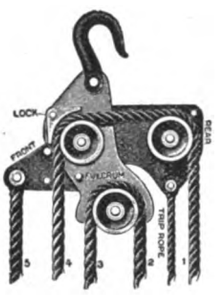
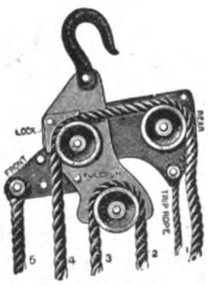


FIG. 1.


FIG. 2, OPEN.

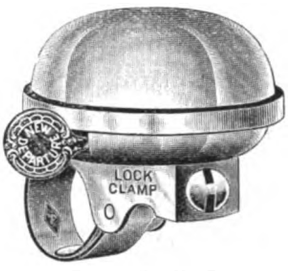
upper block. As this portion of the rope does not pull upon the lever, it is easily slipped between the sheave and lock, so that a load can be adjusted with as much nicety as with an expensive chain hoist. This feature, that cannot be found in any other rope lock block, makes the Burr Safety Lift of the greatest value to painters and all persons working upon swinging scaffolds; also to the


FIG. 3, CLOSED.

workmen in the upper parts of buildings, as they can lower and place material where they wish and not depend upon signaling to the persons below doing the hoisting. There is nothing in these blocks to wear or cut the rope, all parts coming in contact with the rope being perfectly smooth. Use even makes it work more perfectly. These blocks are readily adjustable in power from a 1 to 2 ratio to 1 to 7 by the use of the cross sheave arrangement shown in Fig. 1. This is a particularly convenient matter where the loads to be handled vary greatly from light to heavy. These hoists are made by the Burr Mfg. Co., No. 823 Society for Savings Building, Cleveland, Ohio.

New Departure Bells.

The New Departure Bell Co., Bristol, Conn., John H. Graham & Co., selling agents, No. 113 Chambers Street, New York, are meeting with a very large degree of success with their New Departure Bicycle Bells, a full understanding of which can be had by reference to the accompanying illustrations. They announce that these bells are, in design, the same as have met with such popular favor during the season of '97. This design has proved to be most popular and satisfactory, in proof of which, it will be found that they are to-day in use all over the world. In the New Departure brand nothing but the very highest grade of material is used, while the mechanism is the result of long and close study, supplemented by experiment and thorough test; to absolutely demonstrate efficacy and durability before placing upon the market. The makers say: "The



Pattern E, No. 7.

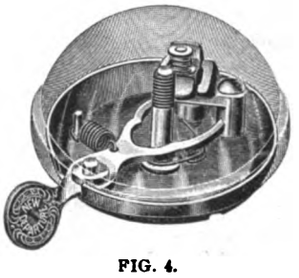
FIG. 1.


Pattern E. No. 10 1-2.

FIG. 2.

simplicity of the mechanism of the New Departure Bell has attained to the highest possible degree, the parts being assembled in a manner which makes it practicable for quick and easy removal for cleaning, should it be necessary. The beaded gong bell (which originated with this company) has reached its perfected form in the square bead, now exclusively used in the New Departure Bells, and possesses qualities of tone and resonance unobtainable by any other method. Scientific investigation, aided by experiment, has combined to produce, not only an attractive design, but a beading of such form, as to produce and retain the melodious tone for which the New Departure Bells are noted throughout the world. This form of bead gives a loud, clear, yet sweet and pleasing sound, which may be heard to a great distance. 'They have a tone that's all their own,' and the constant effort of the company is to retain the richness and purity of this tone by every means within the power of human attainment. The plain gong bells being somewhat of higher pitch, give a sharper sound, but again the shape of the gong has been made to conform to accoustic principles, so that the alarm is not grating or shrill. Fig. 1 shows the beaded gong bell with the lock clamp; Fig. 2 the plain gong with the plain clamp. These bells are made in sizes from 1¾ inches to 3 inches in diameter, with the beaded or plain gong, with the lock or plain clamp, and either electric or double stroke as desired. The lock clamp was the invention of the New Departure Bell Co., and was first introduced by it. Fig. 3 shows the interior mechanism of the New Departure Electric Alarm. It will be noted that the construction is much improved over


FIG. 3.


FIG. 4.

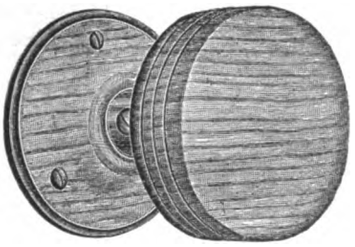
forms previously used and is much more simple and perfect. With this mechanism a clear and clean alarm is given, without rattling and without interference with the vibration of the gong. Fig. 4 shows the mechanism of the double stroke bell, which is exceedingly simple and durable. In Fig. 4 is shown the result of inventive skill and ingenuity, culminating in a simple and perfect double stroke, without muffling or rattling." The New Departure Bell Co. has, at Bristol, Conn., an immense bicycle sundry factory, where are produced the celebrated New Departure

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Bells, the now famous line of Bristol Bells, the New Departure Cyclometer (non-corrosive), the "Sykl" Foot Pump, the New Departure Automatic Bicycle Controller (rear hub automatic brake), New Departure Trouser Guards, etc. John H. Graham & Co., of New York, are sole selling agents for the entire product of the New Departure Bell Co., and all inquiries for prices and terms should be addressed to them. For catalogues and other printed matter and information, address the Advertising Department of the New Departure Bell Co., Bristol, Conn.

Wood Door Knobs.

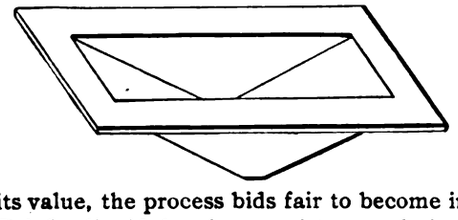
James F. Martin, whose office and factory are at Nos. 1619-1625 Ruan Street, Frankford, Philadelphia, Pa., is



making a very attractive line of Wood Knobs, an illustration of which is herewith shown. Among these are the following numbers and sizes, full prices of which will be sent upon application: No. 2—2¼ inch star finish shank, wood roses, imitation apple; No. 2—2¼ inch bronze plated shank, wood roses, imitation apple; No. 2—2¼ inch bronze plated shank, wood roses, oak, ash and white maple; No. 2—2¼ inch bronze plated shank, wood roses, cherry, walnut and cherry stained; No. 2—2¼ inch bronze plated shank, wood roses, genuine apple; No. 2—2¼ inch bronze plated shank, wood roses, solid mahogany. Mr. Martin has had a great deal of experience in this line, and has successfully introduced these goods into all parts of the country. He is also a manufacturer of sugar and coffee scoops, escutcheons, shutter knobs and novelties in wood, metal, etc.

A Brazing Crucible.

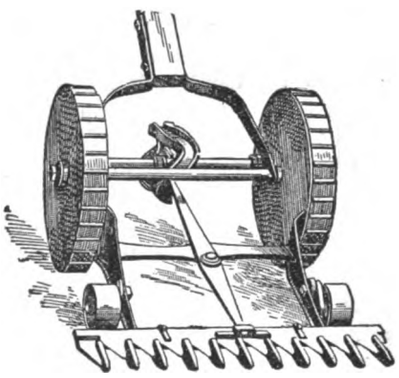
A newer process of brazing is threatening the old-time flame method. That process is liquid brazing. Several years ago it was demonstrated by a company formed for that purpose, that a specially treated joint, plunged into molten spelter, would not only braze in a very few seconds of time, but would, in addition, come out almost entirely free from scale, a brisk cleansing by a metal brush being about all the after treatment required. The process was a secret one, the most important point being the anti-flux, which was a preparation painted over the parts to which it was desired the spelter should not adhere. Some difficulty and delay in the securing of the patents prevented the process being put upon the market in a commercial form, but a number of experiments having demon-



strated its value, the process bids fair to become in general favor. Briefly, liquid brazing consists merely in reducing the spelter to a molten form in a suitably shaped crucible at a high temperature, and then immersing the joint to be brazed in the liquid mass. The surfaces to be brazed are painted with a flux, and the adjacent parts with an anti-flux. A few months ago nothing definite was known regarding the best preparation for an anti-flux, each experimenter endeavoring to find out the best for himself, but the Joseph Dixon Crucible Co., Jersey City, N. J., placed on the market an anti-flux, known as Brazing Graphite, and repeated tests have so strongly demonstrated its value, that it is not too much to say that the next season will in all probability witness a complete revolution in brazing methods, the liquid process entirely superseding the others. On account of the high degree of heat required even the best of wrought iron vessels possessed but short life. The Dixon Co., on account of their well known reputation as crucible manufacturers, were therefore called upon to furnish some vessel that would successfully withstand the intense furnace heat. They have furnished several styles of graphite bowls, oblong crucibles, and other special styles, but have now manufactured a crucible specially adapted for bicycle manufacturers. An outline sketch is shown herewith. It is 24x6 inches inside, the bottom forming an angle, being 10 inches deep in the middle. It has a 3-inch flange to support it in the furnace, and can be used in either cake, coal, gas or oil furnace. The shape makes it particularly suitable for brazing the crank-hanger joints. Further particulars will be furnished by the Joseph Dixon Crucible Co., Jersey City, N. J.

Improved Clipper Lawn Mower.

The Clipper Lawn Mower Co., Norristown, Pa., are very successfully pushing their Improved Clipper Lawn Mower, for which some special points are emphatically claimed by the mannfacturers. They state that on account of the simplicity of construction nothing can escape, and that all weeds, dandelions, etc., are cut as effectively as grass; that the height of the grass is immaterial, and that it cuts closely on irregular surfaces and spaces, between fence-posts and along the walks, and among the shrubbery. They call special attention to the fact that the Clipper does



not roll down the grass preparatory to cutting it; that the finger bars and the finger of the mower as it progresses, gather in the grass with a degree of uniformity in nearly an upright position, They say: "In introducing the Clipper to you, we wish to impress upon your minds that there is no use for a sickle or shears where the Clipper is used." The illustration which accompanies this shows a perspective view of the Clipper mower. "In the first place, you will observe that the cutter bar is directly in front of the wheels. The wheels travel over the ground where the grass is cut, never rolling down the standing grass with the wheels. The small gauge wheels at the side are to gauge the height you wish to cut the grass. The knives can be sharpened in the machine with small file or whetstone, or can be taken out and ground, but they must never be sharpened anywhere except on the beveled side of the knives. The Pony Mower has a cutter bar 24 inches long. The wheels are 15 inches in height. The face of the wheels is 2 inches. The handle is much heavier than that of the hand mowers. A V-shaped drag bar is attached to handle irons, to which pony is attached. The mower's weight is about 85 pounds."

The Trinity Chime Bicycle Bell.

A new bicycle bell, possessing a number of very desirable features not heretofore embodied in any bicycle bell, has been invented by A. W. Barton, traveling salesman for the N. N. Hill Brass Co., East Hampton, Conn. It will be called the Trinity Chime Bicycle Bell, and as its name im-

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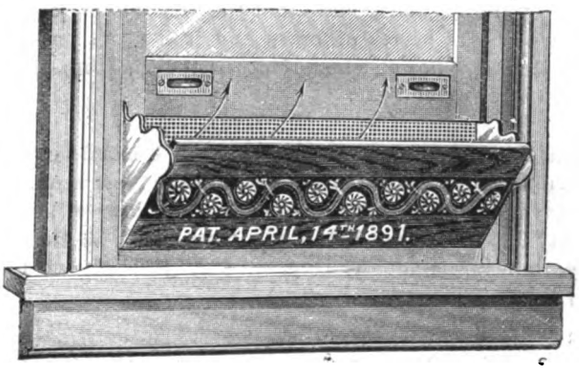
plies, is designed to produce tones of a decidedly musical quality. Its appearance is that of an ordinary bicycle bell, but unlike the ordinary bicycle bell, it is composed of two gongs, mouth to mouth, representing two notes of the musical scale in harmony. By means of a simple adjusting



device, the mechanism can be made to strike either single, double or electric strokes at one operation of the thumb lever. When adjusted to give a plurality of strokes, the hammer strikes the two harmonized bells alternately, producing a harmony of tones very pleasing to the ear. Trinity Chime Bells will be manufactured and sold by the N. N. Hill Brass Co., East Hampton, Conn., in connection with their famous line of Sterling Bells.

The Pancoast Ventilator.

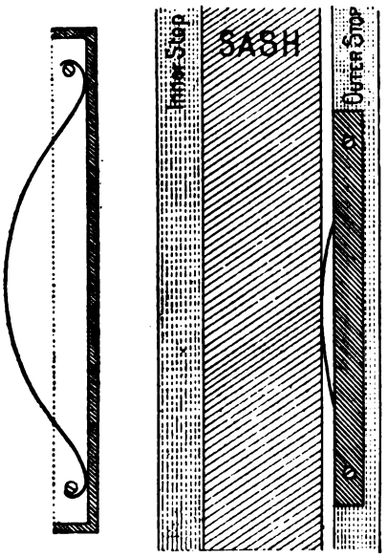
We are pleased to show in this connection a very artistic and useful production of the Hardware line, which is being manufactured by the Pancoast Ventilator Co., with offices at No. 316 Bourse Building, Philadelphia, Pa. This article is designed for use in residences, mills, factories, schoolhouses and churches, or elsewhere where ventilation is desired, and some of the special points mentioned in its favor by the manufacturers are that it is handsome, strong, durable and efficient; that it has no back draught at any angle, and the statement is made that it will "exhaust more cubic feet of air per minute than any other storm-proof ventilator made." These ventilators are put together with a patent edgewise brace, which gives the least possible obstruction, and which insures accuracy of construction, preventing sagging from rough usage. The illustration which accompanies this shows the inside view, which gives ventilation without draught. The company further say: "Three-fourths of all sickness can be traced to impure air, because a large amount of time is spent in houses, place of business, club houses, school rooms, churches, theatres, halls, etc. Science estimates that forty per cent. of all deaths occur through neglect of the sanitary precaution of ventilation. The Common Sense Window Ventilator is the simplest, cheapest and most efficient means of ventilating a room



properly, and thoroughly supplies a want that exists in every occupied room, office, store or residence. No other means or appliance will supply the same amount of pure air in as satisfactory a manner. They are neatly constructed, do not interfere with the free use of the windows, nor do their application to windows mar them. The ventilators are made to fit windows of any width; the metal parts are nickel-plated or polished brass; the wood parts are made of the best seasoned wood, finished in the best cabinet style, all of which makes them neat in appearance and very durable." The Pancoast Ventilator Co. are also manufacturers of the Pancoast Special for use on skylights, power fans, ventilating pipes, etc., the Pancoast Building and Chimney Ventilators, and the Pancoast Chimney Ventilator and Cowl. Further particulars as to prices, etc., concerning all these goods, will be sent upon application.

The Triumph Sash Spring.

Gerolt Gibson, No. 115 North Eighth Street, St. Louis, Mo., is placing upon the market a new article which he calls the Triumph Sash Spring. As will be seen by the accompanying illustration, this is a little bow-shaped band of tempered steel, bearing against the inside stop, which holds the sash pressed against the inside stop. It is invisible. The manufacturer states that any carpenter can put it on, and that two pairs of springs equip a double-sash window. The price is fifteen cents a pair. The manufacturer fur-



ther adds that this spring will stop all rattling of windows, will keep out cold draughts, and all dust and soot. Full particulars will be sent to any one who makes application to Mr. Gibson at the above number.

Impending Changes in Patent Law.

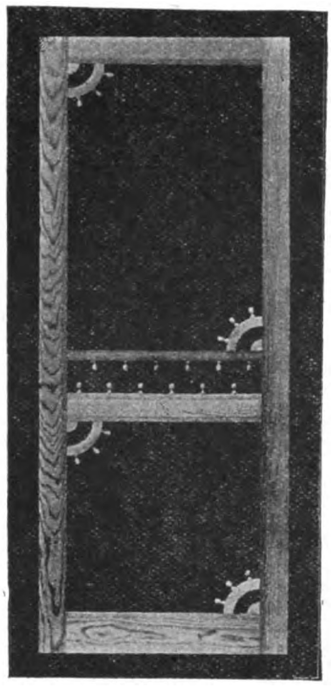
On January 1, 1898, important changes in the patent laws of the United States will take effect. These changes will bear principally upon the relation of applications for United States patents and grants made upon such applications to foreign patents for the same invention. In a former number (issue of March 20, 1897) we have commented at length upon the latest amendments to the patent law. We would now draw the attention of our readers, especially those residing abroad and holding foreign patents for inventions not protected in this country, to the necessity for filing United States applications covering such inventions before January 1, 1898. After that date, applications for United States patents may be rejected if filed more than seven months after the date of filing the earliest foreign application. Under the present law, however, valid United States patents may be obtained for inventions patented abroad several years ago, provided the foreign patent is in force at the time the application for the United States patent is filed. This provision is of interest and advantage, not only to the holder of the foreign patent, but to the American manufacturer or capitalist who desires to secure in this country the monopoly for an invention patented abroad and not so protected here.—*Scientific American.*

In the reign of Henry II. carpets were not in use, and it was considered the height of luxury to have the floors strewn with straw or rushes every morning.

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New Pattern Fancy Screen Door.

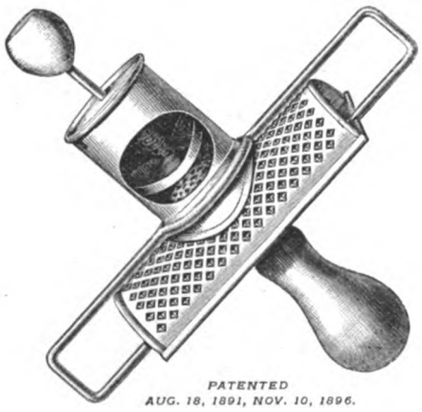
The A. J. Phillips Co., Fenton, Mich., known everywhere as successful makers of wire screens, snow shovels and specialties, are producing a new pattern Fancy Screen Door, style O, which is sure to attract the attention of the trade. The turned ornaments are of polished white maple. They are beaded and of good proportions. The door is



considerably more than a variation of their well-known Style E pattern, the handsome turned ornaments being an entirely new departure. The door will be made both ⅞ and 1⅛ inches thick, will be of pine finished in a natural color. A catalogue describing this new article, and their general line of goods, will be sent on application. The article above referred to can be fully understood by a glance at the illustration accompanying this.

Edgar Nutmeg Grater.

The Edgar Mfg. Co., Reading, Mass., are manufacturing with a great deal of success, the Improved Edgar Nutmeg Grater, a good idea of which may be secured by investigation of the accompanying illustration. They say that by the introduction of new labor-saving machinery, they have



The EDGAR Nutmeg Grater

greatly increased the efficiency and perfect action of the grater, at the same time so reducing the cost that they can now be retailed at the popular price of 10 and 12 cents. They point out the fact that this article will not clog, does not tire the fingers, nor is there a liability of dropping the nutmeg. It grates the nutmeg very fine, leaving no pieces, and they add: "It is simple, durable, economical and cheap."

Make Automatic Machines.

The Automatic Machine Co., Bridgeport, Conn., have just entered into the second year of their corporate existence, and the year they have just completed has been one exceedingly prosperous, with a full complement of help, working twelve and a half hours per day. They have now in course of construction upward of twenty Automatic Wire-Forming machines, besides over forty other automatic machines and presses of various kinds for various uses. They would be pleased to receive a call from anyone needing machinery of this kind, in order to convince the trade of their ability to design and complete automatic machines.

They know how to do things artistically out on the shores of the great Mississippi. One of the chief exponents of Western art, if the souvenir now on our desk can be taken as an evidence, is Col. James R. Nutting, of the Sickels, Preston & Nutting Co., of Davenport, Iowa. This great concern has issued a handsome series of "Art Studies" in copper etchings from recent paintings, and this attractive souvenir is finding its way, at this Christmas season, into the hands of friends in all parts of the country, It is a work of art fitted to adorn any center-table, while the etchings themselves will bear framing for display upon the walls.

The Magnolia Metal Co., Nos. 266 and 267 West Street, New York city, with branch offices in London and Chicago, are sending their friends a handsome ivory finished calendar, for use during 1898. This makes a beautiful ornament, either for the desk or for the wall, and in addition to informing the user as to the various dates during 1898, also conveys to him a wealth of information, touching the progress which Magnolia Metal has made in its successful endeavor to conquer the world, and to fill the ears of men with echoes of its usefulness.

John Milton Graff, a member of the firm of Graff & Co., dealers in stoves and ranges, in Water Street, New York, died on Saturday, December 11, at his home, No. 118 St. James Place, Brooklyn. He was born in Spencertown, N. Y., December 21, 1835. He spent his early manhood in Hudson, N. Y., and came to New York city twenty-eight years ago as a member of the firm of Burtis & Graff, which was succeeded by the present firm. Mr. Graff was a Republican in politics. He leaves a widow, a son and two daughters.

T. F. Welch & Co., No. 65 Sudbury Street, Boston, Mass., have published a four leaf circular containing illustrations and descriptions of dozens of the special articles manufactured by them. They state that they have over 3000 sizes of the different styles of brass and iron gears carried in their stock. They also manufacture steel shafting, springs, thumb screws, etc., etc.

The Hardware, stove and tinware dealers and dealers in agricultural implements of Auburn and Lewiston, Me., have reached an agreement to close their stores hereafter all day Thanksgiving, half a day Christmas, all day Fast Day, half of Memorial Day, all day July 4th and Labor Day.

R. Christensen, No. 88 Chambers Street, New York, has a couple of very eligible offices, and desk room only, to rent, in the most desiaable location on the Street. They are steam-heated, and include the services of porter without extra charge.

J. W. Hughes, late of McIlwaine, Linn & Hughes, who is sole agent for W. & S. Butcher for the United States, is now located at No. 79 Warren Street, this city.

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Review of the Markets.

Business—that is, general business—has kept up so favorably among the retailers, it compares with the trade of a year ago by being largely increased. Seasonable goods have been distributed, however, only in a limited way; the season has been so pleasant, so free from positive wintry conditions in the way of heavy snows and zero weather generally, that snow shovels, sleigh bells, skates, sleds and trade to make up orders for future delivery, the desire being shown of limiting all purchases to a present delivery during this month. Should unnecessary delay take place in the completion of the organization, this condition may continue for a few weeks longer, as the trade not being in pressing need of a heavy stock at this time, will hold off as usual until a tendency to strengthen the market is more clearly perceptible. Prices continue as quoted previously,

SARGENT & CO.'S LIST.

REVISED LIST, DECEMBER 4, 1897.

The changes in list prices are indicated by the heavy face type.

LIST PRICE PER DOZEN.

Number.	One Key.	Two Keys.	Number.	One Key.	Two Keys.	Number.	One Key.	Two Keys.	Number.	One Key.	Two Keys.	Number.	One Key.	Two Keys.
20	$4 50	$5 20	**200**	**$2 70**	**$3 05**	**318**	$6 00	$6 75	**365**	$6 75	$8 00	**702**	**$8 00**	**$9 10**
21	4 50	5 20	**201**	**3 25**	**3 75**	**319**	**7 60**	**9 00**	**366**	**11 75**	**13 20**	**703**	7 60	8 75
22	5 00	5 65	**202**	**3 40**	**3 90**	**321**	4 75	6 00	**369**	16 00	17 25	**705**	**9 30**	**10 80**
23	5 50	6 15	**202C**	**5 20**	**6 00**	**321C**	7 00	8 25	**369C**	18 00	19 25	**706**	8 75	10 25
24	6 00	6 70	**203**	3 75	4 50	**325**	5 75	7 00	**385**	6 70	7 70	**708**	10 00	12 50
25	6 50	7 15	**203C**	5 75	6 50	**325C**	7 25	8 50	**386**	7 10	8 10	**709**	10 85	12 10
30	4 50	5 20	**204**	5 00	6 25	**335**	6 60	8 10	**386C**	9 20	10 20	**715**	9 25	11 00
31	4 50	5 20	**208**	**5 80**	**8 00**	**335C**	9 25	10 75	**401**	6 70	7 40	**716**	12 50	13 65
32	5 00	5 65	**215**	5 45	6 45	**336**	7 50	9 00	**402**	**7 25**	**8 50**	**717**	12 50	14 00
33	5 50	6 15	**216**	6 25	7 25	**342**	6 70	8 20	**402C**	**8 90**	**10 00**	**718**	10 00	11 50
34	6 00	6 70	**216C**	8 00	9 00	**343**	8 35	10 85	**403**	**7 60**	**8 85**	**719**	13 00	13 25
35	6 50	7 15	**218**	5 75	6 75	**344**	7 50	9 50	**403C**	**9 60**	**11 00**	**815**	9 50	10 75
60	5 75	6 40	**222**	6 25	7 30	**344C**	9 50	11 75	**404**	**7 90**	**9 20**	**816**	11 70	13 70
61	5 75	6 40	**223**	6 70	7 95	**345**	7 75	10 00	**405**	8 25	9 25	**819**	**12 20**	**13 40**
62	6 25	6 95	**232**	7 10	8 35	**345C**	10 50	12 50	**405C**	10 45	11 70	**982**	.....	7 00
63	6 75	7 40	**232C**	8 75	10 00	**346**	6 25	7 50	**406**	**8 00**	**9 25**	**982C**	.....	8 70
64	7 25	7 95	**301**	**4 00**	**4 50**	**347**	6 70	7 65	**406C**	**10 25**	**11 50**	**982P**	.....	20 00
65	7 75	8 40	**302**	**4 40**	**5 00**	**347C**	8 35	9 30	**407**	**8 25**	**9 40**	**983**	.....	7 85
70	5 75	6 40	**303**	**4 65**	**5 50**	**348**	8 35	10 35	**407C**	**10 30**	**11 50**	**983C**	.....	10 35
71	5 75	6 40	**304**	5 50	6 75	**349**	11 90	12 50	**408**	9 20	10 45	**983P**	.....	22 00
72	6 25	6 95	**305**	**6 20**	**8 20**	**349C**	15 00	16 50	**409**	9 60	10 85	**984**	.....	9 25
73	6 75	7 40	**307**	7 10	9 10	**352**	5 25	6 50	**409C**	11 25	12 75	**984C**	.....	11 75
74	7 25	7 95	**312**	4 75	6 00	**355**	6 25	7 50	**411**	**8 00**	**9 25**			
75	7 75	8 40	**313**	5 00	5 75	**356**	**7 60**	**9 00**	**425**	15 00	16 50			
100	**1 90**	**2 10**	**315**	**5 20**	**6 40**	**357**	9 00	10 25	**502**	18 50	20 50			
190	**1 95**	**2 20**	**316**	**5 50**	**6 60**	**358**	**8 00**	**9 25**	**605**	8 00	9 25			
192	3 40	4 40	**316C**	**8 25**	**9 35**	**361**	6 70	8 70	**607**	10 00	11 25			
190	**2 40**	**2 80**	**317**	**9 30**	**11 15**	**362**	8 35	10 35	**607C**	12 10	13 35			

Padlocks in Sets.—With Master Key.

NUMBERS.	Sets of 4. Per Set.	Sets of 6. Per Set.	Sets of 12. Per Set.	NUMBERS.	Sets of 4. Per Set.	Sets of 6. Per Set.	Sets of 12. Per Set.	Sets of 24. Per Set.	Sets of 36. Per Set.	NUMBERS.	Sets of 4. Per Set.	Sets of 6. Per Set.	Sets of 12. Per Set.
204	$2 20	....	....	**348**	$3 80	$5 20	$9 35	....	....	**702**	$2 85	$4 00	....
208	**2 50**	....	....	**356**	3 65	5 00	....	....	....	**705**	3 50	5 00	....
307	2 80	$4 00	....	**358**	3 75	5 20	....	....	....	**706**	3 45	4 90	....
316	2 25	**3 25**	....	**361**	3 10	4 20	7 55	....	....	**708**	3 85	5 50	$13 20
316C	**3 25**	**4 65**	....	**362**	4 05	5 65	10 45	$19 60	....	**715**	3 60	5 15	....
317	**3 60**	**5 20**	**$9 90**	**365**	2 60	3 65	....	....	....	**716**	4 70	6 75	....
335	2 70	3 80	....	**366**	**4 85**	**6 90**	**12 75**	**25 00**	**$37 50**	**717**	4 70	6 75	....
335C	3 60	4 90	....	**401**	2 60	3 65	....	....	....	**718**	3 85	5 50	....
336	3 00	4 25	....	**402**	**2 80**	**4 00**	....	....	....	**719**	4 50	6 50	....
344	3 50	4 75	8 50	**402C**	**3 40**	**4 85**	....	....	....	**815**	3 45	5 25	....
344C	4 20	5 75	10 50	**406**	**3 10**	**4 50**	....	....	....	**816**	4 90	6 85	....
345	3 60	4 90	8 75	**406C**	**4 00**	**5 65**	....	....	....				
345C	4 50	6 25	11 50	**435**	6 00	8 50	16 00	32 00	48 00				
346	2 60	3 65	....	**605**	**3 00**	**4 25**	**8 00**	....	....				

similar goods have not yet been bought so liberally as the dealer hoped for. The jobbers are finding a lessening demand for staples, and with the annual inventory on their hands, have enough to occupy their time and attention to make any orders but special ones assume any importance.

Wire Nails: The absence of any definite date when the consolidation of the wire interests shall take effect, has had the influence on the market of keeping prices steady on this leading staple. There has been no pressure upon the $1.40, base, for carload lots at mill. New York quotations are: $1 55 for carload lots on dock, and $1.60@$1.65 for smaller lots from store.

Cut Nails: As usual with the end of the season, the sales of cut nails are very light by comparison with wire nails, although indications point to a greater use being made of them during the coming season, especially if the control of the wire output will have a tendency to still further widen the difference in prices between the two lines. Prices continue without important change, although a good

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sized order could doubtless be placed slightly below the present current quotations, which are: $1.15 for carload lots at mill. New York prices: Carload lots on dock, $1.30; smaller lots from store, $1 40.

Padlocks: For 1898 business, the manufacturers of Wrought Iron Padlocks have issued revised price lists, changing lists on a number of styles which at the prevailing discount have been sold for some time without much profit. The discount remains as previously quoted at 75@80%.

The list announced by Sargent & Co., New Haven, Conn., and New York, is given herewith, the heavy face type indicating the changes.

We give a *fac simile* of it, in order to show methods adopted by their catalogue department to convey information of this kind, and which deserves to be followed by every manufacturer.

The following is the list of the Russell & Erwin Mfg. Co., New Britain, Conn, and New York:

PADLOCKS.

Padlocks. No.	With one key. Per dozen.	With two keys. Per dozen.	Padlocks. No.	With one key. Per dozen.	With two keys. Per dozen.
5000	$1 05	$2.20	1001	$3.00	$3.70
4000	1.90	2.10	1032	6.70	7.70
3000	2.70	3.05	1036	5.45	6.45
2000	2.70	3.95	1200	4.50	6.00
200	3.25	3.75	1201	5.00	6.00
201	3.40	3.90	1203	5.50	7.50
202	4.00	4.50	1206	7.10	8.10
203	4 40	5.00	12 9	8.35	10.00
204	4.65	5.50	1213	15.00	16.55
205	5.20	6.40	1218	6.60	8.20
206	5.50	6.60	1219	6.90	8.45
207	6.75	8.00	1222	6.25	7.30
208	8.75	10 00	1225	7 60	8.85
209	6.25	7.50	1227	10.00	11.25
210	8.00	9.10	1233	7.90	9.20
211	10.75	12.00	1234	9.20	10.45
212	11.20	12.35	1235	5 30	6.75
213	16.00	17.25	1236	5.55	6.85
214	4.75	6.00	1237	6.70	7.95
215	5.5	6.75	1238	7.50	8 45
216	7.25	8.50	1240	5.25	6.25
224	6.20	8.20	1241	5 75	6.75
225	7.50	9.00	1245	8.25	9.25
226	6.60	8.10	1246	9 60	10.85
232	9 50	11 00	1247	7.10	8.35
246	4.75	6.00	1248	7 95	9.00
247	5.75	7.00	1301	6.00	6 80
250	12.50	13.55	1309	9.20	10 20
301	5.20	6.00	1313	16.40	18.05
306	8.25	9.35	1322	8.00	9 00
313	17.00	18.25	1325	8.90	10 10
314	8 35	9.30	1345	10 45	11 45
326	9.25	10.75	1346	11.25	12.50
346	7.00	8.25	1347	8.75	10.00
347	2.75	8.50	1348	9.25	10,25
1000	3.00	3.70			

PADLOCKS IN SETS. WITH MASTER KEY.

No.	In sets of 4. Per set.	In sets of 6. Per set.	In sets of 12. Per set.	No.	In sets of 4. Per set.	In sets of 6. Per set.	In sets of 12. Per set.
206	$2.25	$3.25	$5 85	326	$3.60	$4.90	....
207	2.60	3 65	6.75	1206	3.40	5.00	$9.00
208	3.00	4.25	8 00	1209	3 80	5.20	9 35
209	2 60	3.65	6 75	1218	3.20	4.30	7.60
210	2.85	4 00	.. ..	1219	3.30	4 45	7.90
211	3.60	5.15	6 75	1222	3.10	4.20	....
212	3 45	5 25	10.00	1225	3.45	....	....
214	2.00	3 45	....	1227	3 85	5.25	....
216	2 80	4.00	8.25	1240	2.60	3.65	....
225	3 00	4.25	....	1241	2.75	3.35	....
226	2.70	3.80	....	1301	3.10	..	....
232	3.70	5.25	....	1309	4.20	5.75	10.50
280	4.70	6.75	13.00				

"AMERICAN" SMALL PADLOCKS.

Nos	1	2	3	4	11	12	13	14
Per dozen	$4.50	5.00	6.00	6.50	5 75	6.25	7.25	7.75
Nos	5	6	7	8	15	16	17	18
Per dozen	$4.50	5.00	6.00	6.50	5.75	6.25	7.25	7 75

Screws: The low prices so long prevailing on this leading line had prepared the trade to expect at any moment a change in quotations. The manufacturers have been trying for several weeks to agree to some uniform scale of discounts, on which the business of 1898 could be safely solicited. The tone of the market has become sufficiently firm to warrant the following announcements, which will doubtless be followed later by other leading manufacturers: Russell & Erwin Mfg. Co., New Britain, Conn., and Nos. 43-47 Chambers Street, New York, have issued, under date of December 22d, the following discounts:

Flat Head Iron	87½ and 10%
Round and Oval Head Iron	85%
Flat Head Brass	87½ and 10%
Round and Oval Head Brass	85%
Flat Head Bronze Metal	85 and 10%
Round and Oval Head Bronze Metal	85%
Flat Head Japanned	85%
" " Iron Screws, Blued	5% advance on net

P. & F. Corbin, New Britatn, Conn., have issued, under date of December 22d, a similar announcement, as follows:

Flat Head Iron	87½ and 10%
" " Japanned	85%
" " Brass	87½ and 10%
" " Bronze Metal	85 and 10%
Round and Oval Head Iron	85%
" " " " Brass	85%
" " " " Bronze Metal	85%
Flat Head Iron Screws, Blued	5% added

As the prices long prevailing on screws have been acknowledged unprofitable to all concerned, there is no doubt the increasing cost of raw material will make advanced quotations possible throughout the entire line.

Shovels and Spades: The manufacturers who were in convention assembled on the date of our previous issue, spent more time than was at first anticipated, but the few differences arising were quite harmoniously settled, and the combination is undoubtedly stronger than ever. Although in the opinion of some, a stiffening of the market by advanced prices would be deemed good policy, the majority were opposed to unsettling the present satisfactory conditions, which were consequently permitted to continue.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of December 21st, quote advanced prices as follows: In lots of less than 5 barrels, 43 cents per gallon; in lots of 5 barrels or more, 42 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon.

THE COLUMBUS TRADE.

The year of 1897 will soon be a thing of the past, and business men can reflect while smoking their pipes of peace, and decide whether they have displayed good business sense at all times or not. If we are not badly mistaken, some transactions will loom up that will compel most Hardware jobbers to admit that they have made mistakes that might have been avoided. The question is, Will they repeat them in 1898? The failure of a large Chicago jobber is proof that there is danger in doing business on the ridiculous margins that have prevailed on many goods during the past few years. It is an undisputed fact, that it costs money to sell goods. Whenever a manufacturer, jobber or retailer gets a notion that he can do business on a five per cent. margin of profit, somebody suffers. If Hardware dealers will go over their purchases and see what a large per cent. of their purchases are staple goods, they will be surprised, and many of the staple goods do not pay the cost of marketing them.

Another disease dealers are troubled with, is the habit of selling goods at the old price as long as their stock lasts, after manufacturers have made an advance. They seem to think their competitor was not so lucky, and they will make it warm for him. They forget that the other fellow is more than likely as well provided for as they, and also forget the many times they have had good stocks, when manufacturers dropped the price 10 to 20 per cent. With the small margins, and the many decline in prices, it is absolutely necessary to get the occasional advance. We know a jobber that was selling a certain article at five per cent. less than he could replace it for, and as it was a staple article, he soon unloaded, and then he tried to contract for more of the same article at 10 per cent. more than he just unloaded at. No doubt this jobber thought he was doing something smart. Possibly he was, but we cannot figure it out that way. It is a common thing for retailers to act just as foolishly. We have often heard them say, "Well, I have a pretty good stock, and my competitor has to buy at the new price and I will get some of his trade." Of course his competitor will sell just as low, if he makes nothing; and the lucky one loses an opportunity to get back part of what he lost by a decline on some other articles. Business is a peaceful warfare. While we believe a fair

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fraternal feeling is springing up between dealers, there is, no doubt, still room for improvement in that direction.

The year of 1897 has been a great improvement over 1896 in the volume of business, but we cannot see any improvement in the margin of profit. We believe that with the general increase in business and the bettered condition of the farming community, the cutting that has prevailed for the past three years will not be as great in 1898. We hear of a number of improvements in the way of new buildings in our city for the next year, and think it is true of other cities. We fear the new nail and wire deal (if consummated) will interfere with building and farm improvements. If the deal goes through, there is a danger of prices being advanced too high. The syndicate claim there will be a great saving in expense by concentrating the business. This is, no doubt, true, but who is going to get the benefit of this saving? Are they doing this in the interest of the consumer or are they getting ready to make them throw up their hands while they rob them? We hope they will be satisfied with a reasonable profit, which no one will object to. Time will tell.

Wishing our many friends a merry Christmas and a happy and prosperous New Year, we say good-bye for 1897.

SMITH BROS. HARDWARE CO.

THE BOSTON TRADE.

Although the close of the year is at hand, there seems to be a good demand for general merchandise, but certain seasonable goods which depend upon weather conditions are not moving as readily as we might wish.

One reason why trade keeps up is because of the conservative purchases made during the past few months. Nowhere can we find stocks larger than is consistent with present demands of business.

There is an absence of that speculative spirit which was so rife a few years ago, and even the possibility of a new wire and nail trust has little or no attraction for the would-be speculator.

The outlook for higher values is not as encouraging as we would like to see it, and this is especially noticeable in certain lines of spring goods which are being offered by the manufacturers regardless of cost of production.

Every one is getting ready for his annual inventory, and but few orders are being placed for wants beyond immediate demand. FRYE, PHIPPS & CO.

THE BIRMINGHAM TRADE.

In looking back over the year to see what progress has been made, while we see many things that we would have had otherwise if we had the choosing, yet we are able to note progress. In this vicinity we have two large cotton mills nearing completion, one oil mill at work, one fertilizer plant ready for work, one powder mill which will soon be after orders, one steel mill in full blast, some new business houses, many nice new residences and other plans in the hands of the architects. In addition to this, a railroad has been built across the State, and we see from the newspapers that other lines of road will be built next year, and so we look to the future with hope. Many of our people feel discouraged at the low price of cotton, while their brethren of the West are obtaining such nice profits on wheat, but sometimes what seems to be a hardship proves to be a blessing in disguise. We will hope that it is so in this case, since that is the only bright side to the question. If it shall result in cutting down the surplus and causing a wider diversification of the crops, the ultimatum will have been reached. In order to make the large crops of cotton, our farmers depend too much upon the West for corn, mules, meat, hay, etc., and in order to pay for same they must sell their cotton too cheap and pay higher for these products. It does look as if they had had object lessons enough already, but they seem to learn only in the dear school of experience. We note they are now holding conventions and resolving to cut down the acreage the coming year. This is a good resolution, but like many other good resolutions, by all classes, we fear it will die with the resolving, and never be adopted until the powerful hand of necessity is laid upon them.

We are glad to note the tendency of our Southern people to take up the manufacturing of our great staple, for this surely is the most advantageous territory, when all things are considered. We note they are able to make the market prices on such goods as they are making, and will be able to do so with other lines as they add them on. We have a great country, and our section has much promise of a brighter future. When it is considered that Alabama can compete with the world in the cheapness of the production of pig iron, steel, coal and cotton, why should we not have an influx of population, which will bring trade in all lines? The financial question will ere long be settled on a better basis, so will the tariff, and when these great questions are properly adjusted we may look for better things.

To reach a general conclusion, we would say we have much reason to be hopeful—even though Congress is again in session. MOORE & HANDLEY HARDWARE CO.

THE DAVENPORT TRADE.

After the calamity that has just occurred to the Hardware trade in Chicago by the failure of one of its oldest and staunchest houses, it would seem proper that what few houses are left there, should return to the time-honored custom of charging for case and cartage. They claim the honor of being the first to advertise they had discontinued this charge, and hence they should be the first to admit that it was a mistake. Why should we not charge for packing cases and carting Hardware? We pay men good cold cash every Saturday night for doing this work.



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Cases cost money as well as the merchandise they contain, and so far we have been unable to get draymen to cart our goods without a consideration.

Even Uncle Sam charges as much for carrying a package one block as he does for hauling it across the continent. A customer readily pays the freight carried on railroads five miles, but if the same goods are sent to him on a dray ten miles, he is not even presented with a bill for the service. Prices quoted on the different lines we sell in *Hardware* and other trade papers do not add the cost of packing, cartage and cases to their printed schedules. These quotations reach the heavy as well as the shelf or general Hardware trade. If a dealer buys in Chicago of a heavy Hardware house, he pays for boxing and draying; but if he buys the same goods from a shelf Hardware house at the same prices, there are no such charges made. We do not expect to get something for nothing; why should we be so eager to give something for nothing?

Since we very foolishly decided to follow Chicago in this no case and cartage departure, we have given away thousands of dollars in this manner, and no customer has shown his appreciation by even a "thank you." Why do we persist in making ourselves appear ridiculous by such gifts as twenty-five per cent. dray tickets and second-hand packing boxes? We pay for all kinds of packing, and will be compelled to do this as long as we live, and the first bill that will be presented to our heirs and assigns after we have climbed the golden stairs and begin pushing silver-lined clouds, will be for case and carting.

SICKELS, PRESTON & NUTTING CO.

THE PITTSBURG TRADE.

Consolidation seems to be considered the cure for all ills in business at present. Both manufacturers and merchants seem to think that they can save in expense account, and stop competition, by this means, so the big aggregations form, and time alone can demonstrate the wisdom of this plan of operation.

In theory, it works out all right; in practice, we have noted some successes and some failures.

With the rapidly accumulating capital in our country seeking profitable investment, the managers of these big consolidations dare not advance prices beyond a fair manufacturer's profit, without inviting new competition. In some lines it may take several years to develop such new competition, and no doubt in some cases the old owners count on present profit, and let the future look out for itself, but with the immense productive capacity of our manufacturers, it would seem to be the part of wisdom to be satisfied with a smaller profit, and thus disarm new competition.

The year now closing has not been so good as was generally expected, yet it has shown an improvement in this: that although prices of all manufactured goods remain very low, there are more men employed and more works busy.

The good crops and increased prices secured by the farming population must increase their purchasing ability, and their demands will, without doubt, keep the wheels moving.

The increasing export of our products in iron and steel is a most encouraging feature of the situation, and offsets to a considerable degree the disappointment of low prices.

The local jobbing trade is in fair volume for this season, rather ahead of December, 1896.

Stock-taking will occupy our attention soon, and then the books will tell the result of our year's work.

LOGAN-GREGG HARDWARE CO.

THE PHILADELPHIA TRADE.

The end of 1897 finds jobbers, as usual, in the midst of stock-taking, which, added to the duties of the holiday season, gives them very little time for reflection, or even for the joys of Christmas, and it now remains to be seen whether the results will gladden the hearts of those interested, and this applies to small as well as large dealers.

We feel that we cannot impress too strongly upon all dealers the necessity of annual inventory. In these years of declining prices, the natural tendency is to over-estimate the amount of stock on hand, and many a man, who puts off stock-taking from year to year, is confronted by a most unpleasant surprise when he finally takes account.

Stock-taking, therefore, should be rigorously taken every year. Old and depreciated goods should be marked down, or taken as worthless, and weeded out, while all goods should be estimated at the lowest cost. There is no use in making a profit on paper, and when a man over-values his stock, this is simply what he is doing. If favorable results are there, it will show, and nothing is gained by concealing.

Business, of course, as is usual at this time of the year, is quiet. Salesmen are off the road, overhauling their books; and until the first of the year there is a general lull, which, however, may be broken at any moment by a spell of cold weather, and consequent demand for skates.

In reviewing 1897, we may say it has been an exceptional one in the history of trade. Prices which were supposed to be low at the end of 1896 have gone still lower, while trade in the East has been somewhat slow to feel the general improvement which is so markedly manifest in the West. It certainly seems as if better times were in prospect for 1898, and it seems reasonable to suppose that higher prices will rule in many cases.

BIDDLE HARDWARE CO.

THE DENVER TRADE.

Denver jobbers in all lines appear to have been very busy during past three months, and are "still in it." The results of enormous crops and good prices for all products,

COMMON SENSE IN RUBBER.

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing.
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

When one business man asks another for his trade, it is not sufficient to make claims—there must be reasons. That is one of the advantages of high grade goods—they fairly bristle with reasons. Take water hose for instance—you don't have to be a rubber expert to see that the vital point is the tube; for if it leaks, the layers of duck at once begin to rot. Leaks come from pin holes or cracks in the tube. Fine rubber does away with both—with pin-holes because it contains no foreign matter to interfere with the mixing—with cracks because the rubber is elastic and not injured by the continual bending and twisting of the hose. **All sizes and grades of our Garden and Water Hose have tubes of exceptionally fine rubber, elastic, seamless and lasting. Full line for '98 now ready.** Call or write.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Indianapolis.....70 S. Illinois St.
Philadelphia....308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co.,* 91 Congress St. E., *Detroit, Mich.

as well as the increased gold product of the State, are making themselves felt in all lines of business. A most disastrous freight war among the all-rail and rail and water lines from the East to our territory has been raging for weeks past, with no apparent sign at this time of coming to an end. Its result cannot be estimated until peace is restored, but its immediate effect has been no satisfaction to any one that we can learn.

The quiet winter season is approaching, but we anticipate that it will be short, and spent chiefly in stock-taking and preparations for renewed activity in the spring.

In the local situation we can see only brightness ahead, which will be fulfilled in a good business for Colorado in 1898, unless general conditions in the country at large are made worse instead of better. This, we hope, no one expects. GEORGE TRITCH HARDWARE CO.

THE ST. PAUL TRADE.

The business of these closing weeks of the year has proved very satisfactory, in that there is some increase in the volume of sales, and a marked improvement in collections over previous years. In fact, collections were never better than they have been during the past two months. In the past, the farmers, and others, have shown a disposition to hold back some of their dollars, evidently fearing that more would not be forthcoming to replace them. Now the strongest confidence prevails that better times are at hand. Farm mortgages are being paid off, and the money received is steadily flowing back to the East, from whence it came, as the old demand for it has ceased to exist.

The holiday trade has been good. The average person felt more like making presents than he did last year, or the year before. This is another indication of the improved condition of things.

The rumors of the formation of "trusts," or "pools," or whatever they may be called, in certain lines, causes the market in these lines to be rather feverish and unsettled, but we can always expect to be stirred up more or less in this way, and we cannot all of us be on the right side all of the time.

We believe that a firmer tone in the market on all lines would be a welcome condition, and with the general increase in business that seems so well assured, can we not reasonably expect it? C. W. HACKETT HARDWARE CO.

THE OMAHA TRADE.

December, up to the present time, has shown an exceptional record of trade. The latter part of November was a little inclined to be quiet, as all the farmers appeared to be busy gathering their crops, but the first of December started in with a snap and a bang, and has not shown any signs of lessening.

From present indications, December, in all lines, will be the heaviest December for a great many years.

The unsettled conditions prevailing in the matter of freights for some time past, promise to pass away with a series of good resolutions to be adopted on the first of the year, so that prices on staple goods will undoubtedly rule materially higher after that date.

Collections are all that could be asked for, and the general prospects for the coming year are very materially improved over those of a year ago.

RECTOR & WILHELMY CO.

Trades and Their Patron Saint.

No fewer than forty-two trades have their patron saints, mostly chosen because the selected saints worked, or were supposed to have in their lifetime worked, at that particular occupation, and therefore fitted themselves to watch over, guard and protect those engaged in it. The following list gives the names of the occupations and their respective patron saints:

Armorers, St. George; artists, St. Agatha; bakers, St. Winifred; barbers, St. Louis; bookbinders, St. Louis; booksellers, St. John; brewers, St. Florian; brushmakers, St. Anthony; burglars, St. Dismas; candle makers, St. Lucian; carpenters, St. Joseph; carpet weavers, St. Paul; clothworkers, St. John; divines, St. Thomas Aquinas; doctors, St. Cosme; dyers, St. Maurice; ferrymen, St. Christopher; fishermen, St. Peter; goldsmiths, St. Eloy; hatters, St. William; huntsmen, St. Hubert; lawyers, St. Yves Helori; locksmiths, St. Peter; mariners, St. Christopher; millers, St. Arnold; miners, St. Barbara; musicians, St. Cecilia; mailers, St. Cloud; netmakers, St. James; nurses, St. Agatha; painters, St. Luke; pinmakers, St. Sebastian; potters, St. Gore; shepherds, St. Windeline; shoemakers, St. Crispin; spectacle makers, St. Fridolin; tailors, St. Goodman; tanners, St. Clement; tax collectors, St. Matthew; tent makers, St. Aquila; travelers, St. Raphael; wheelwrights, St. Boniface.—*Tit Bits.*

The Nova Scotian Iron Industry.

Nova Scotia has for years been trying to build up an iron industry, but so far no great success has attended these efforts, although the Canadian Government have loyally assisted those who were disposed to invest their money in the iron industry by granting very substantial bounties. As much as £17,000 has been paid to the Nova Scotia Steel Co. for nine months' work in producing billets made in Canada from pig-iron manufactured in Canada from Canadian ores. The bounties on billets, which for a long time stood at 8s. 4d. a ton, have lately been increased to 12s. 6d.; but, nevertheless, the Nova Scotia Steel Co. have lost something like £1000 in the year 1896–97, and this in the face of large reductions in the wages of the workmen and the salaries of the officials. The Londonderry Iron Co., also of Nova Scotia, who for several years past have paid no dividends, have apparently given up the business as a bad job, and are offering their works for sale.—*Iron and Coal Trades Review.*

The Troy Nickel Works, Albany, N. Y., are sending their friends a cute little leaflet entitled "Service," which shows some wonderful illustrations of the American citizen under various phases, and also conveys the impressive fact that the Alaska goods, manufactured by this well-known company, are "Always Cold."

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

OILERS

25c. 10c.





Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—

The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

To Educate the Salesman.

One of the latest forms which practical education has assumed is to teach the young man how to become a successful salesman. It is an important factor in commercial and manufacturing life, this art of disposing of a product once ready for a market, or of finding purchasers for commodities bought for a profitable resale, and the education of the efficient salesman is therefore a matter of supreme interest to the captains of industry. At these new schools of learning, we gather from fragmentary information, the aspiring salesman is thoroughly initiated into the mysteries of securing a reluctant order.

A novice with greater ambition than penetration of mind once upon a time went on the road on a salary, but day after day sped by and no orders went in to the house. The manager finally felt it his duty to tell him that he would probably never sell a machine. "Just wait till I find some one who wants to buy and see if I can't sell," was the reply. Alas, for the young man. He failed to grasp the elementary principle that his mission was to convince, not to search.

But at this school for salesmen the inexperienced youth is to be given an exhibition of how to make a sale. The second step is to place him in the fictitious marts of trade and require him to make the sale which he has just seen brought to a successful issue. And so by degrees the curriculum expands until the student receives his diploma and goes forth to encounter the genuine buyer. It might be premature to compute the increased percentage of efficiency among salesmen which will result from the new school. It will not be known until the new education is thoroughly tested.

It is proper to remark, however, what a great boon the development of 25 per cent. greater efficiency in the salesman would mean to trade. Business is essentially aggressive. The trader who sells glass beads to the painted savage entices the barbarian to buy after he has found him, and from that primitive transaction up to the sale of a railway, spanning a continent, there is almost invariably present in the negotiation the element of personal insistence.

Civilization owes a huge debt of gratitude to this aggressiveness of trade. It constitutes the pressure that uplifts the social fabric and brings in its train the material comforts that distinguish present life from the more primitive type of existence. If buyers were let alone, if the manufacturer and the merchant made no effort to sell, rapid deterioration would immediately begin in all branches of trade. Modern progress would be at an end.

It will probably be discovered that the salesman, like the poet, is born, not made; but if the general average should be raised a little, the world would be the great gainer.—*Industrial World.*

The Modern Trade Journal.

I do not hesitate to put forward the assertion that the "rank and file" of trade papers show more intellectual cleverness in their advertising columns than can be found anywhere else in the journalism of America.

There is not a single representative trade journal that in some way or other does not possess a redeeming trait in this respect, and a great many are as artistic, clear-cut and scintillant as the business pages of any of the high-class literary magazines.

The trail of the amateur ad. writer has not yet ensnailed itself through their columns, but the outcrop of the sturdy brain of the practical up-to-date business man is there in all its forceful comprehensiveness, sight-compelling typography, great good humor of "the shop," and unmistakable acquaintance with the technique of the goods written about.

The best humor in American advertising to-day is in the trade journals.

The most forcible advertising language is in the trade journals.

The business announcements, that are couched in the most gentlemanly, well-bred college-put English are to be found in the trade journals.

The greatest percentage of terseness and compressed intelligence is in the advertisements of the trade journals.

The best models of artistic typography and engraving are to be found in the advertising columns of the trade journals.

The trade journal is a development, not an experiment. It is the evolution of the circular, the booklet and catalogue into a full grown, end-of-the-century periodical, taking on increased vigor and enlarged facilities at every stage. Considered as a class, it is the embodiment of progressive ideas and the exponent of what is modern and new.—*Advertising Experience.*

Paternal Failure.

When the young man called to ask for the old man's daughter the latter naturally thought it was necessary to put up a good bluff, that being the usual method of procedure. Consequently he looked solemn, coughed once or twice as a sort of preliminary, communed with himself a minute or two, coughed again and asked:

"Can you support her in the style to which she has been accustomed?"

"If I couldn't," returned the young man, promptly, "I ought to be ashamed of myself."

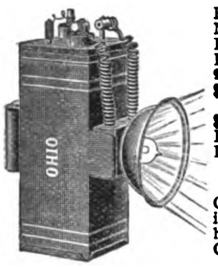
The old man's bluff was called.—*The Chicago Post.*

Nothing associated with rapid transit or means of transportation has secured as much public attention in Europe as the motor carriage. In both Paris and London numerous stock companies have engaged extensive capital to operate horseless vehicles. In the gay capital of France, the motor driven voitures, as the cabs are called, are a common sight in the boulevards and avenues. At the coming Sportsmen's Show in Madison Square Garden, New York, the exhibition of motor cabs and carriages will form no unimportant feature of what promises to the most interesting exposition the famous amphitheatre ever sheltered.

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WE UNDERSELL ALL.

It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights.	$4.0
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
98 Medical Batteries.	3 98
$100 Bicycles, best make.....	39 00
$1.25 Bicycle Bells....	.50
Electric Bells, fineat.	.30
Dry Batteries, best..	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . . Catalogues free.

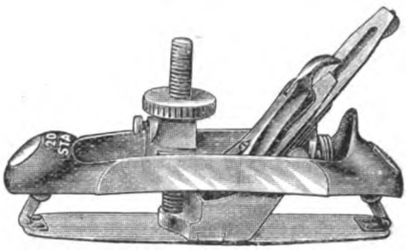
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

Stanley's Improved Victor Circular Plane.



The Flexible Steel Face of this Plane can be made concave or convex, by turning the screw which is attached to its centre.

No.20. Circular Plane, Nickel Plated, 1¾ in. Cutter, $6.00

A German Cyclist's Brake.

"We Americans traveling abroad are apt to be very proud of our reputation for cleverness," said a tourist who went bicycling in Europe last summer. "And no doubt we have reason to be. But I am going to tell you how I had some of the conceit taken out of me.

"We were going through Switzerland, and had reached the close of the first day's descent toward Geneva. The road had been too steep to coast without the aid of a brake, and as we were afraid to use our brakes for fear our tires would not last us through our trip, we back-pedalled all the way.

"As we were sitting after supper on the veranda of the lodge discussing the fatigue of our unusual exercise, and dreading the morrow, which meant more of the same sort, our attention was suddenly called to a cloud of dust descending the mountain side. Then we saw a cyclist, coasting as nice as you please, towing a good-sized sapling by a rope tied to the rear of his wheel, which acted as an effective brake without injury to the tires. One of the boys ejaculated: 'Well, why didn't we think of that?' The rest were simply dumb. That man was a German, I now take off my hat to our German brethren of the wheel."—*New York Sun.*

Cowbells.

One of the comparatively few things that the hand of improvement has not touched is the cowbell, which is made now just as it was fifty, a hundred, and more years ago, and has now just the same peculiar clanking sound as ever. Cowbells are made, some of copper and some of a composition metal; but most of them are made of iron and finished with a coating of bronze. The cowbell is not cast; it is cut from a sheet of metal which is folded into shape and riveted. The metal loop at the top, through which the strap is passed, is riveted into the bell. Cowbells are made in ten sizes, whose sounds range through an octave. Sometimes musical entertainers who play upon bells of one sort and another come to the manufacturer, and by selection among bells of the various sizes find eight bells that are accurate in scale.

There are only four factories in the United States in which cowbells are made, and in each case the cowbell is only an item of production among many other things. Cowbells are sold all over the country, just the same as ever, but much the greater number are sold in the South, the Southwest and the West, where farms are larger, less likely to be under fence, and cattle are more likely to stray. There are sold in those parts of the country a hundred dozen cowbells to every ten dozen sold in the East. American cowbells are exported to the various countries of South America and to Australia.—*Exchange.*

A horse will live without solid food for twenty-five days, provided he is given drinking water; but will exist only five days upon solid food without any liquids.

Situations Wanted.

EXPERIENCED traveling salesman, familiar with the jobbing trade, wants to better his future by connecting with a house where he can grow. Highest references from present employers. Salary not so much an object as an opportunity to show right house what he can do. Address "LANTERN," care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

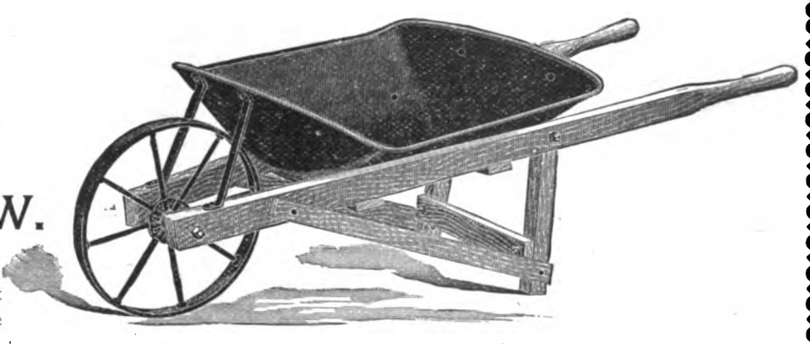
YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

Agency Wanted.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

PAN-AMERICAN R. R. BARROW.

With Round Steel Spoke Wheel. The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.



Write **THE KILBOURNE & JACOBS MFG. CO.**
COLUMBUS, O., U. S. A.

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"PERFECTION" WELDLESS STEEL CHAIN.

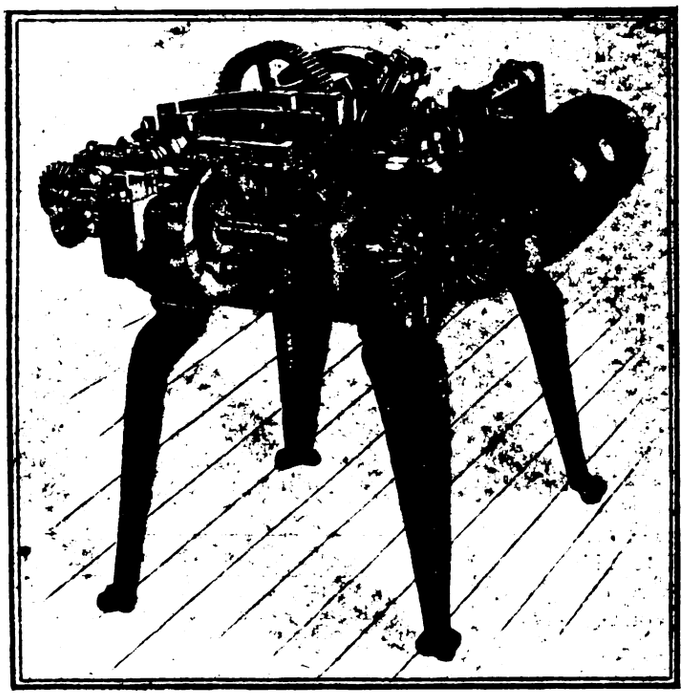
(Coil Only.)

Cut shows exact size of our No. 3. This Chain is Stronger and Lower Priced than the German Welded Chain.

We are also makers of the celebrated **"Triumph"** and **"Brown"** Steel Wire Chains made into Halters, Kennel Chains, Traces, Cow Ties, Tie-out Chains, etc., etc. **"Monarch"** Sash and Plumbers' Chains.

THE BRIDGEPORT CHAIN COMPANY, Bridgeport, Conn.

HAVE YOUR WIRE AND SHEET METAL GOODS PRODUCED ON AUTOMATIC MACHINERY



FRUIT JAR WIRE MACHINE.

. . . BUILT BY

The Automatic Machine Co., Bridgeport, Conn.

Louis' Oil Stone Works,

CHAS. E. LOUIS, Propr.

Established by Predecessor in 1856.

MANUFACTURERS OF

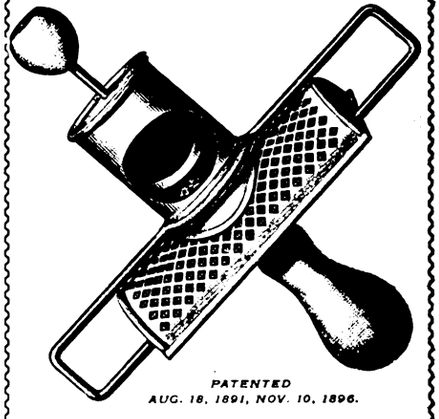
Ouachita and Arkansas Oil Stones,

Orange & Hindostan Water Stone.

Special Shapes and sizes made to order. We also manufacture Stones specially adapted to Jewelers', Watchmakers', Carvers' and Lithographers' Trade.

JEFFERSONVILLE, INDIANA, U. S. A.

THE NEW 1896 Edgar Nutmeg Grater.



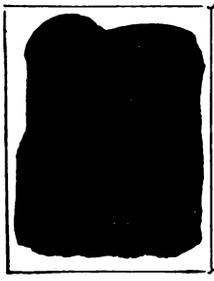
PATENTED AUG. 18, 1891, NOV. 10, 1896.

The ONLY good Nutmeg Grater ever made.

Ask your jobber for it, or send to us for sample.

EDGAR MFG. CO.,

READING, MASS.



"The Safety Weather Strip" FOR USE ON ALL OUTSIDE DOORS.

THEY PREVENT

Rain, Snow and Wind

FROM BLOWING UNDER THE DOOR.

WE WANT AN AGENT IN EVERY CITY AND COUNTY.

Manufactured by **The Novelty Mfg. Co.,**

Office, 40 E. Fifth Street, Canton, Ohio.

HARDWARE DEALERS

It will pay you to handle our Roofing Cement. Put up in fancy cans, 3, 5, 10, 25 and 100 lb. cans. Write

BROWN BROS.,
Montgomery, N. Y.

STEEL STAMPS AND DIES,
STENCILS, NOTARY, LODGE AND CORPORATION SEALS.

CHECKS, BADGES,



MACHINERY PLATES.

Burning Brands, Brass Signs, Brass Labels, Models and Moulds for Casting WHITE METAL.

SCHWERDTLE & SIEBERT,
85 Fairfield Ave., BRIDGEPORT, CONN.

"NO BETTER MEDIUM."

U. S. Mfg. Co., Fond du Lac, Wis. [*Cyclometers, Lamp Brackets.*]: Manufacturers of bicycles and bicycle sundries find their best customers among the Hardware trade. To reach this trade, we know of no better advertising medium than HARDWARE. Our advertising in HARDWARE has been of an effective character.

Benefits Greater Than Ever Before.

Nicholson File Co., Providence, R. I., [*Files*]: We are pleased to state that the results thus far obtained from our advertisement in the columns of *Hardware* fully justify our having resumed our contract with you. We feel that the benefits which we are securing from your paper are **greater than ever before.**

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OUR GUARANTEE GUARANTEES.

You Run No Risk in sending us a trial order, for we fill it under our guarantee that if our Files do not cut faster and wear longer than any others, we make no charge.



Any foreman or superintendent can have one of our Files to try. . . .

Send for free copy of File Facts and Suggestions. . . .
A handy book for all Mechanics. . . .

Fac Simile of Label appearing on each box of Arcade Files.

NEW YORK:
97 Chambers Street.

The Arcade File Works,

WORKS: ANDERSON, IND.

CHICAGO.
118 Lake Street.

If it's an ARCADE it's the best.

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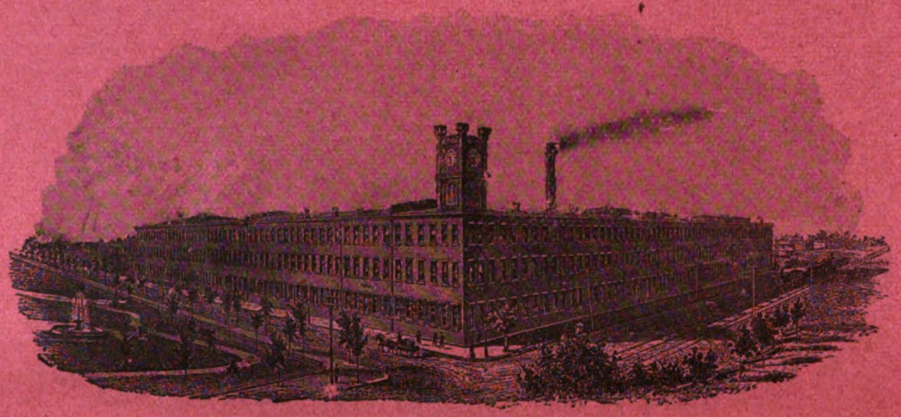
LALANCE & GROSJEAN MFG. CO.

New York, U. S. A.

BRANCHES:

CHICAGO, ILL.

BOSTON, MASS.



FACTORIES:

WOODHAVEN, L. I.

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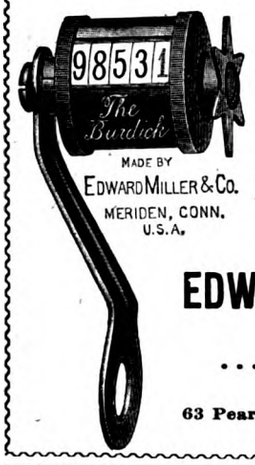
HARRISBURG, PA.

MANUFACTURERS OF

AGATE NICKEL-STEEL WARE, CRYSTAL STEEL WARE, PEERLESS ENAMEL WARE, BLUE AND WHITE ENAMEL WARE, KITCHEN SINKS, PLANISHED, BRASS, COPPER, HOTEL, STAMPED, PIECED AND JAPANNED WARES.

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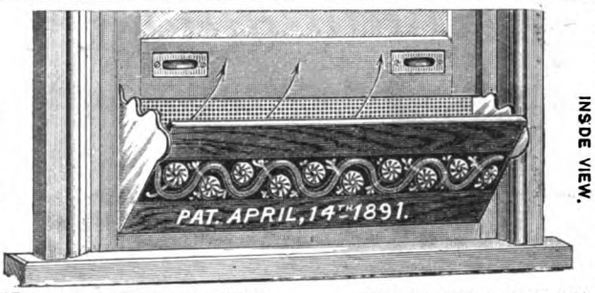
The BURDICK CYCLOMETER.



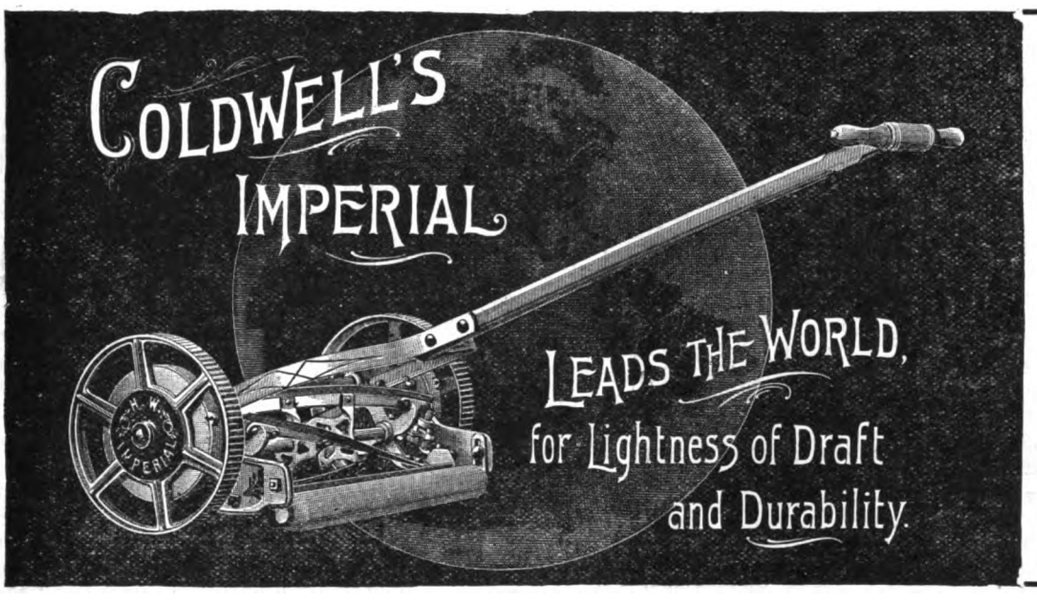
Weight 1 Ounce.
10,000 Miles and Repeat.
New Principle. Reliable. Best.
Dust Proof. Water Proof.
1898 GOODS.
MILLER'S A1 LAMP.
EVERLIT LAMP.
ROYAL BELLS.

EDWARD MILLER & CO.,
Factories and General Office,
...MERIDEN, CONN...
STORES:
63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.

THE COMMON SENSE WINDOW VENTILATORS.



SIMPLE, EFFECTIVE and CHEAP. INVALUABLE FOR USE IN
Offices, Sitting Rooms, Bed Rooms, Smoking Rooms, School Rooms, Churches, Court Rooms, Public Halls, Hospitals, Etc.,
... And, in short, wherever fresh air is needed indoors ...
Adjustable to any window.
Send for Circular. Retails at $1.00. Discount to Trade. Agents wanted.
—Manufactured and for sale by—
PANCOAST VENTILATOR CO., INC.,
Main Office, 316 Philadelphia Bourse, PHILADELPHIA.



MAIN OFFICE,
NEWBURGH, N.Y.

BOSTON,
113 & 115 Milk St.

CHICAGO,
73 Wabash Ave.

PHILADELPHIA,
1917 Market St.

A First-class Hamburg Firm

Of wholesale dealers and agents in household goods, specialty enameled ware, with a large staff of agents all over the country, and doing a large trade with the Hamburg export firms, is open for the *import* of American household machines and similar goods; no bicycles. First-class bank references. . . .

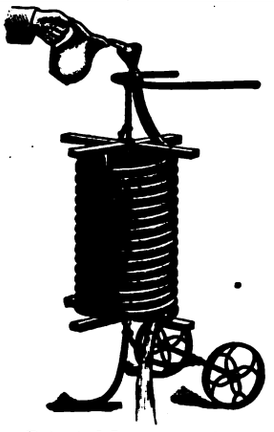
Apply to "FOREIGN," care "HARDWARE," No. 143 Chambers Street, New York.



FRANKLIN S. MILES
MANUFACTURER OF
Brass, Iron, Steel and German Silver SCREWS.
All kinds of Special Screws.
205 QUARRY ST. - - PHILADELPHIA, PA.

"TOO VALUABLE TO BE WITHOUT."

Charles T. Mitchell, Baltimore, Md.: HARDWARE is too valuable to be without.



Patented January 5, 1897.
Others applied for.

IT EXPLAINS
Why it is
Superior to all other
Hose Reels. This
The Hartzell
Self-Draining Hose Reel
will carry more hose,
it will **drain, preserve** and
greatly increase
the **durability** of **Hose.**

It is a beautiful ornament for a lawn. It is convenient, light, strong. It will please your customers as it saves money. For prices and Sample Reels, address

The Hartzell Novelty Works, (Sole owners and man'f'rs) ALLIANCE, OHIO.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Boyne City, Mich.—Herron & Son have recently established a Hardware store. They will handle Hardware, tinware, cutlery, guns and ammunition.

Eau Claire, Mich.—Chas. F. Howe, Hardware, has opened a new store.

Jersey City, N. J.—R. C. Beard & Son.

Lafayette, Ind.—John Lanner is making arrangements to open a Hardware store and tin shop.

Lawrenceville, Va.—Sledge & Barkley, Hardware, etc., have opened new store.

Louisville, Ky.—The Bridgeford Hardware Co. have filed articles of incorporation with the Secretary of State. Capital, $75,000. C. W. Adams and others are the incorporators.

Milford, Del.—The store formerly occupied by Thos. F. Hammersley, in Jump's Block, has been rented by Walter H. Davis, of Camden, Del., who will occupy it for the sale of Hardware.

Richmond, Va. — A charter has been granted to the Richmond Hardware Co. to do a general Hardware business. The capital stock is not to be less than $10,000 nor more than $20,000. The officers are as follows: President, William H. Parrish; vice-president, M. H. Isbell; secretary, W. D. Green; treasurer, W. H. Parrish; manager, Samuel H. Wilkinson. The directors are the above and A. J. Parrish and Susan E. Parrish.

Somerville, N. J.—W. I. Honeyman.

Trenton, Mich.—F. Bailey & Co., Hardware, tinware and stove store, have opened a new store.

Upper Montclair, N. J.—A. A. Sigler & Son.

Worcester, Mass.—William T. Sykes has opened a Hardware store and tin shop at the corner of Cross and Church Streets.

Changes and Improvements.

Bixby, Minn.—H. K. Dimmick, Hardware and blacksmith, succeeded by Joseph Huderlick.

Centerville, S. D.—C. C. Grimsley, Hardware, succeeded by L. B. Thompson & Co.

Columbus City, Iowa.—W. W. Dunham has traded his stock of Hardware to W. W. Orr and R. M. Moore for their farms. They will take possession January 1st.

Elkhart, Ind.—The sale of the Jones Hardware Co.'s stock by assignee D. M. Best took place recently, and Edgar T. Parker, of Hillsdale, was the successful bidder.

Fort Valley, Ga.—The firm of Tonner & Co., doing a grocery and Hardware business here, have sold to the Exchange Bank. The amount of their indebtedness is not known. Dull business and poor collections are said to be the cause of their selling out. This firm has been doing business here for quite a while.

Fremont, Neb. — Theo. Huette & Son, wholesale and retail Hardware, succeeded by Jones & Hobbs.

Hampton, Mass.—J. W. Mason has recently sold his grocery, grain and Hardware business for $5000 to Ernest Cole, a hustler in trade.

Henderson, N. C.—C. E. Wilson, grocery and Hardware departments, has remodeled his store.

Jeffersonville, Ky.— T. J. Lindley has bought the entire stock of Hardware belonging to the firm of Lindley & Fry, assigned.

La Porte, Ind.—The Webber Hardware Co.; H. C. Wilhelm has sold his interest in the business, and will sever his connection with the establishment.

Macon, Ga.—Etheridge & Baker, who have been conducting a general Hardware business at No. 317 Third Street since October, 1889, have made some very extensive additions to their line of business, and to make room, have rented the adjoining store, No. 319, formerly occupied by S. Jones & Co. They now have one of the most commodious, as well as convenient and well arranged Hardware and house-furnishing stores, not only in Macon, but in the South, enabling them to display their large and well assorted stock to the very best possible advantage.

Marlboro, Mass.—Bradley & Brigham, dealers in stoves and tinware, have moved their stock into the west factory owned by J. B. Billings on Main Street.

New Cumberland, Pa.—Mr. Conley, of Parkersburg, has purchased Jacob Eichinger's Hardware store on Market Square.

New London, Conn.—Henry M. Whittemore, of New York, has purchased the Hardware business which has been conducted for a number of years by Daniel Latham, at No. 143 State Street. Mr. Whittemore will continue the business at the old stand and also the repair shop.

Newport, Vt.—F. W. Caw, of Lancaster, N. H., has purchased of A. F. Benjamin his stock of tinware and stoves.

Northwood, Iowa.—John Opsthus is now proprietor of the W. I. Brebner Hardware store. The deal was made about a week ago and the new proprietor has taken possession.

Pleasant Hill, Mo.—Russell & Gustin, Hardware, reported to have dissolved partnership.

Prattville, Mich.—Clark & Gallup start out as a good team in the Hardware store purchased from H. E. Iseman.

Staunton, Va.— Worthington Hardware Co., wholesale and retail Hardware, have moved into their new building fronting on both Main Street and Central Avenue.

Torrington, Conn.—Dwan & Harrington, stoves and plumbing, succeeded by J. J. Dwan.

Weimar, Tex.—L. Fahrenthold, dealer in tinware, pumps, windmills, etc., has sold out business to G. Buske.

Welcome, Minn.—H. A. Miller, Hardware, etc., succeeded by Welcome Hardware Co.

Business Embarrassments.

Cambridge, Mass.—George W. Barnes, Hardware, reported to have made an assignment.

Eaton, Ohio.— Bonner Bros., Hardware and implement dealers of this place, have assigned to George H. Kelly. Assets about $10,000. Liabilities unknown, but not quite as large as assets. They are successors of W. A. Bonner, the leading Hardware dealer in this place for many years.

Fitzgerald, Ga.—The Boyd Hardware Co. has closed its doors for the benefit of creditors.

Hochheim, Tex — A. Timm, doing a Hardware and blacksmith business, has filed deed of trust, naming A. A. Ross as trustee. Assets and liabilities are not known.

Johnstown, Pa.—F. W. Hay & Son, Hardware, tinware and stove dealers, have assigned.

Lyons, N. Y.—County Treasurer Richard T. Ellison has been appointed by Justice Davy as receiver of the firm of Noble & Tromer, Hardware merchants doing business at the corner of Water and Broad Streets.

Melrose, Mass.—Wm. A. Burrell made an assignment on December 6th.

Remington, Ind.— Hardy Bros., Hardware, have failed.

Taylor, Tex. — Robertson & Prewitt, Hardware, house-furnishings, etc., stock sold for the benefit of creditors.

Toledo, Ohio.—Henry Katsche, a Hawley Street Hardware dealer, has made an assignment for the benefit of his creditors to John Burton. Slow collections and poor business are given as the causes. Assets and liabilities are not stated.

Burglaries in Hardware Stores.

Lincoln, Neb.—Humphrey Bros., $250.

Mount Vernon, N. Y.—A. Templeton, knives and shotguns.

Putnam, Tex.—J. J. Sigler, Hardware, store burglarized, and about $500 in cash taken.

Sanborn, Minn.—Poss & Gleason, Hardware, store burglarized.

Recent Fires.

Collins, Iowa.—John B. Jones, implement store, destroyed by fire.

Ellston, Iowa.—W. Q. White, Hardware, etc., destroyed by fire at a loss of $900; insured for $600.

Evart, Mich.—The Evart Hardware Co., damaged by fire at a loss of $3000.

Hemple, Mo.—R. A. Sodowsky, Hardware, destroyed by fire.

Providence, R. I.—G. P. Patterson, $10,000.

Scottsburg, Ind.—J. M. Price, Hardware, etc., destroyed by fire at a loss of $1500; insured for $1000.

Toledo, Ohio.—Charles Ullrick & Co, $1500.

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Barney & Berry's
Ankle Support Skate

HERE SHOWN, HAS OUR

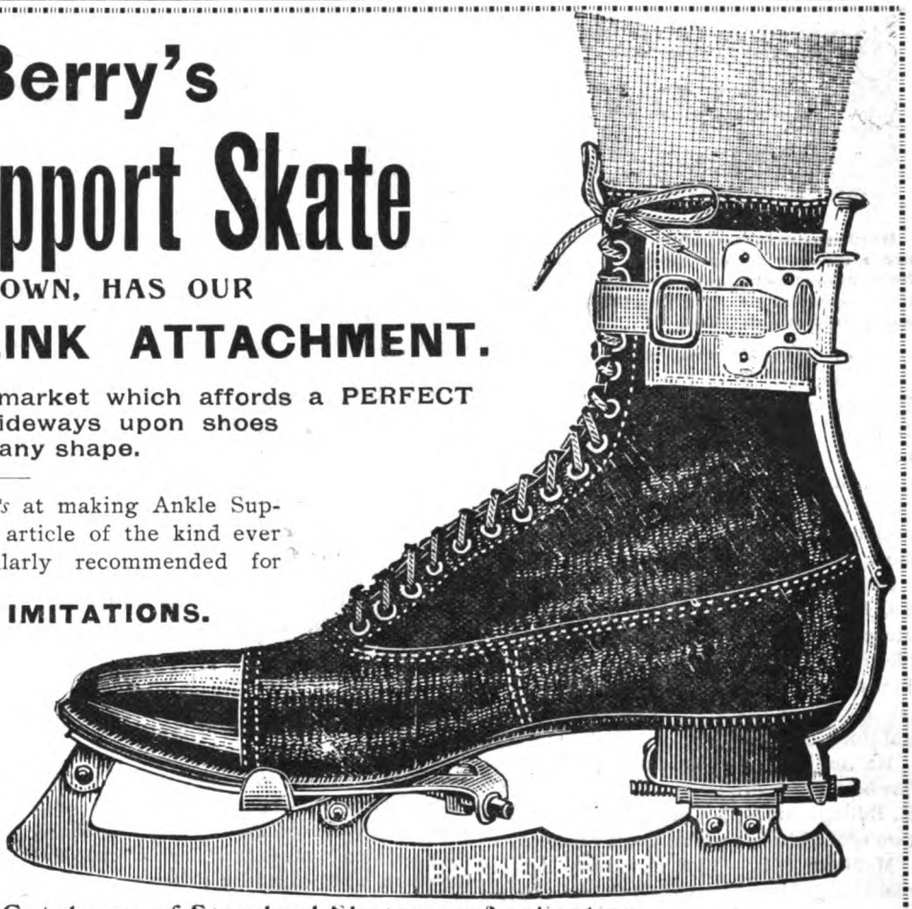
NEW LINK ATTACHMENT.

The ONLY device on the market which affords a PERFECT adjustment sideways upon shoes of any shape.

There have been many *attempts* at making Ankle Supports, but this is the only *perfect* article of the kind ever offered to the public. Particularly recommended for ladies and children.

BEWARE OF CHEAP IMITATIONS.

To avoid FRAUD see that THE NAMES OF BARNEY & BERRY ARE STAMPED ON EVERY FOOT PLATE.



Complete Catalogue of Standard Skates on Application.

NEW YORK OFFICE, 114 CHAMBERS STREET.
PHILADELPHIA OFFICE, 412 COMMERCE STREET.
BOSTON OFFICE, 100 MILK STREET.

Barney & Berry, Springfield, Mass.



The . . .
"Advance"
line
Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.



KEARNEY & FOOT CO. 100-102 Reade Street, NEW YORK.

The BEST Drill on the market.

North, South, East, West. From all points come Armatures, Generators, Dynamos, Motors, Transformers **Which We Repair**

and make GOOD AS NEW.

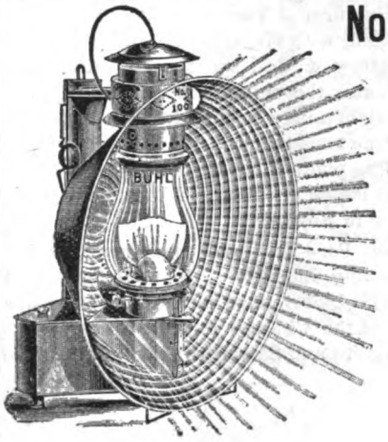
Write for esitmates on your work.



We pay the Freight one way.

The W. H. Elliott Electric Co., GENERAL ELECTRICAL REPAIRERS,

Fourteen Years' Practical Experience. 14, 16 and 18 Middle St., CLEVELAND, OHIO, U. S. A.



No. 100 Buhl Tubular Headlight.

This remarkable Lantern will burn 48 Hours in Wind or Rain, on Land or Water. . . . .

16-inch Hood, 7-inch Nickeled Brass Reflector.

6 IN A CASE.

LIST, PER DOZ., $30.00.

BUY BUHL STAMPING CO. BUHL LANTERNS BURN BEST DETROIT MICH.

CANFIELD'S MOULDED RUBBER GOODS
RUBBER HEADED NAILS
GLASS GAUGE GASKETS, RINGS, BUMPERS.
BOILER GASKETS
SMALL RUBBER GOODS
MOULDED RUBBER GOODS
H. O. CANFIELD - BRIDGEPORT, CT.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Albany, N. Y. — The Self-Sharpening Plow Co. has been incorporated by Charles L. Dow, John J. Gallogly, George R Meneely, M. S. Northrup and Henry Norris, to manufacture, buy and sell plows and other inventions of Charles L. Dow, especially self-sharpening plows. Capital stock, $125,000.

Baltimore, Md.— The Columbian Mfg. Co. has been incorporated by Edmond J. Murphy, William S. Ryon, Forrest Bramble, Frank D. Gosnell, William G. Towers, James A. Gawthrop and Gustave W. Ridgeley, for the manufacture of novelties. Capital stock, $20,000.

Hartford, Conn.—American Specialty Co. has been incorporated by J. H. Knight, C. E. Billings and G. J. Capewell, to manufacture specialties. Capital stock, $100,000.

Madison, Wis.— The Broadway Implement Co., of Superior, with a capital of $75,000, has filed articles of incorporation.

Moselle, Mo.—The Moselle Iron Co. has been incorporated by J. Craig Smith, J. A. Powers, S. N. Taylor and others. Capital stock, $25,700.

Providence, R. I.—Articles of incorporation of the W. E. Burrett Co. have been filed. The company is formed for the purpose of carrying on the business of buying, selling, vending, trading, manufacturing and exchanging farming tools and agricultural implements, and also for buying and selling all kinds and varieties of seeds and fertilizers, and transacting all kinds of business incidental thereto. The corporation is to be located in this city, and the incorporators are George W. Williams, Wilbur A. Fisk and George F. Williams. The amount of capital stock is $125,000.

Raleigh, N. C.—The Kester Mfg. Co. has been incorporated with a capital stock of $11,000. The business of the company is manufacturing and repairing machinery and working in wood, iron, tin, steel, bronze, etc.

San Antonio, Tex.—The A. A. Browne Novelty Mfg. Co. has been incorporated by Andrew A. Browne, Marian C. Browne and James L. Mogford to manufacture novelties. Capital stock, $5000.

Changes and Improvements.

Batavia, N. Y.—The officials of the Wiard Plow Co. are now firmly established in their handsome new office, which has been in course of construction for several months. The architectural design of the building is plain, but at the same time handsome. Inside modern improvements are in evidence everywhere, and the office force has at hand everything to facilitate its work. Entrance is gained through a solid oak door on the Swan Street side, over which the words "Wiard Plow Co. Office" appear in raised letters. Below, in gold letters, is the inscription "Established 1804. Incorporated 1876." Inside the main entrance is a short hall, on the south side of which are located a general office room and the big vault. These occupy the entire south end of the ground floor. The general office is about 20 by 21 feet in size and handsomely finished in polished oak. North of the hall are the private offices of President Wiard, Treasurer Hough and Secretary Washburn, each being about 16 by 18 feet in size.

Burlington, Vt. — C. E. Hobbs & Co., manufacturers of granite cutting tools, have moved their business to East Montpelier.

Frankfort, N. Y.—The Business Men's Association of Frankfort are busy raising $1500 to be used in paying the freight on the machinery of the Ostrander Arms Co. from Boston to Frankfort, as an inducement for that concern to locate its plant in this village. The company will bring to Frankfort machinery worth $70,000, and place it in one of the vacant West Shore shops, which it can occupy free of rent for 99 years, with excellent prospects that a large number of workmen will soon find employment.

Middletown, Conn.—The Doebler & Leonard Mfg. Co. has recently been reorganized by C. F. Doebler, and incorporated under the laws of the State of New Jersey, with a capital stock of $50,000, as the Doebler Mfg. Co. The company will manufacture window pulleys, padlocks, steel shelf brackets, etc., and will commence operations immediately.

Sheffield, Ala.—The Sheffield Stove Works; Messrs. Lowman have sold their interest to Sadler & Cohen, who will start another stove manufactory.

Improved Conditions.

Beaver Falls, Pa.—The H. M. Myers & Co. Shovel Works at this place, one of the largest concerns of the kind in the State, which has been running short handed for some months, have started up full handed in every department, and it is said have orders enough ahead to keep running until next May.

Cincinnati, Ohio.—A large order has been received by the Davis & Egan Machine Tool Co. for export. The order was given in person after a careful inspection of the plant and of the quality of goods turned out. Mr. Yarrow, member of the large shipbuilding firm of Yarrow & Co., of London, England, with Mr. Green, a representative of Yarrow & Co., spent a day at the factory, and the result was, as stated, the placing of a very large order for all sorts of machine tools that can be used in a shipbuilding plant. The yards of Yarrow & Co. are at Poplar, London, and are among the largest in Europe.

Erie, Pa.—Erie will soon have another flourishing industry. John Depinet and John G. Liebel have leased the extensive plant of the Chicago & Erie Stove Works at Twelfth and Sassafras Streets, and have taken possession. It is the intention to start the works up on the 1st of January, with a full force of men. The sale includes the possession of all the patterns, moulds, etc., owned by the Chicago & Erie Stove Works, which went out of existence several years ago. Improvements will be made at once. Messrs. Depinet and Liebel will manufacture high grade heaters and cook stoves. Mr. Liebel has been with the South Erie Iron Works for many years. He has had considerable experience. Mr. Depinet is known as one of Erie's most progressive business men.

Fitchburg, Mass.—The Putnam Tool Co. have resumed work. For some time past workmen have been engaged in putting the machinery in proper condition. The plant will be by degrees worked more and more until, it is hoped, it will be on its old footing again.

Reading, Pa.—The representatives of the Reading Hardware Co. (which employs 1000 hands in its works here) are holding their annual meeting here, to last for a week, during which reports will be received as to the trade in their respective sections and the outlook for the ensuing year. These representatives come from all parts of the country, and they unite in saying that 1898 will be a good business year. Trade is reported to be improving in the West.

Recent Fires.

Allentown, Pa. — The M. C. Ebbecke Hardware Co. has been singularly unfortunate the past few years in visitations by the fiery element. On April 15, 1896, the foundry at the foot of Linden Street fronting on the Lehigh River, was partly consumed at a loss of about $300. April 27 last the handsome and well stocked store of the firm at No. 606 Hamilton Street was completely gutted and a loss sustained of $12,000. Recently the foundry was again visited by fire, and everything destroyed save the engine, boiler and cupola.

Berlin, Ont.—A fire has occurred in the M. B. Perrine & Co.'s shoddy and twine mills, the largest in Canada, situated at Doon, a village six miles from here. There is no fire protection, and the flames raged uncontrolled until the arrival of the Preston fire brigade, which confined the fire to the large brick twine department. The loss is at least $50,000.

Gallipolis, Ohio.—The Kling Stove Foundry building, damaged by fire at a loss of $2000.

Miscellaneous.

Springfield, Ohio.—Wages have been cut at the big harvester works of Warder, Bushnell & Glessner, of which Gov. Bushnell is the head. The cut is made by means of the annual readjustment of prices for piece work. As a sample of how the readjustment works, the men working on binder frames received 35 cents a piece last year, whereas this year the price has been cut to 25 cents. There are now about 800 men at work in the shop.

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THE BANNER

OIL HEATERS

Will take the chill off a room in a few minutes.



2 feet 3 inches high.

No Smoke, No Odor, or Chimney.

The same this year as in previous years.

A perfect success then, and a perfect success now.

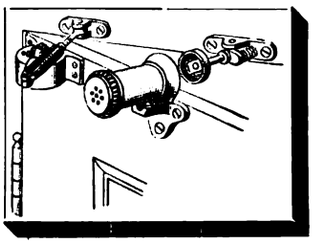
Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

MADE BY

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NOT LIQUID BUT AIR.

The Eclipse is an air Check. That is a decided advantage. Air doesn't leak all over; air doesn't freeze. The Eclipse Door Check and Spring has other great advantages. It is easy to apply—any mechanic can apply it; it is easy to keep in order, little attention required. It is a article for the money-making Hardwareman, who should supply the demand at this season of the year. For simplicity, durability, utility and cheapness there is nothing like the Eclipse. It is not an experiment; it stands the test of time. Send for printed matter with reduced prices.



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New York;
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Lamps, Engineers' Sets, &c.

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The Wilmot & Hobbs Mfg. Co.,

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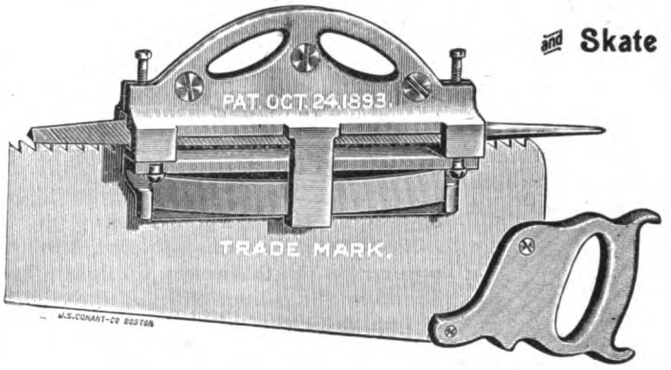
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Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

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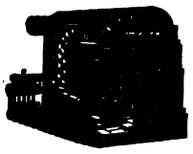
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NEW YORK OFFICE OF

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A New Departure.



Hot Water Heater, combining Hot Water for Domestic purpose. With six (6) of our special manifolds, one man will cut and thread pipe and set up one in ten hours. Cheapest and best on earth.

Send for Catalogue. Agents Wanted.

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"FOR YEARS."

Henry Disston & Sons, Philadelphia, Pa. [*Saws, Files, etc.*]: Our opinion of HARDWARE is contained in the fact of our having carried an advertisement in your paper for a period of years.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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For Tempering, Coloring and Filtering Purposes.

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The only device ever invented that will lay carpets successfully.

Its merits are proved.

None better. Simple, effective, Strong, Compact, anyone can use it. Hardware Dealers sell them.



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TRADE MARK.



LEATHER.

Bull Dog Lace Leather the best on earth.

JOHN C. HAGAN & CO.,
Manchester, Virginia, U.S.A.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Baltimore, Md.—The Lerch Cycle Saddle Co. has been incorporated by Harry A. Lerch, William M. Lerch and John T. Bird Hyde; to manufacture bicycle saddles. Capital stock, $5000.

Boston, Mass.—The Iver Johnson Sporting Goods Co. will open new store at No. 408 Washington Street, about January 1, 1898. D. R. Harvey will be general manager of the company.

Carthage, Mo.—H. P. During, of this city, has formed a partnership with a Ft. Scott, Kan., bicycle firm, and they will open a wholesale sundry business under the name of the During & Peniman Cycle Supply Co., of Fort Scott, Kan.

Chicago, Ill.—American Chainless Wheel Co. has been incorporated by Walter T. Stanton, Robert J. Frank, James E. Daughters; to manufacture bicycles and Hardware specialties. Capital stock, $100,000.

Chicago, Ill.—Diamond Rubber Co. has been incorporated by H. E. C. Miller, W. S. Oppenheim and W. S. Holden; to manufacture rubber goods. Capital stock, $300,000.

Chicago, Ill.—Hare Bicycle Mfg. Co. has been incorporated by Henry A. Ritter, William Brace and John G. Campbell; to manufacture bicycles. Capital stock, $20,000.

Chicago, Ill.—Wilson-Davy Mfg. Co. Capital, $10,000; manufacture bicycles, machinery and metal specialties. Incorporators: Charles M. Wilson, Edward W. Davy and Charles D. Bennett.

Cleveland, Ohio.—The J. Sachs Boot & Shoe Co. has entered into the manufacture of bicycle shoes, upon an extensive scale.

Fort Wayne, Ind.—L. A. Centlivre Mfg. Co., incorporated, $20,000 stock. Will make bicycles.

Ihlen, Minn.—J. C. Dnea, Hardware, sporting goods, etc., has opened new store.

Sheboygan, Wis.—John G. Riedel, furniture dealer, has taken the agency for the Imperial bicycle; also for the Arabian, Progress and Imperial, Jr.

Springfield, Ill.—The Rokker St. Clair Airless Tire Co. has been incorporated by H. W. Rokker, O. C. St. Clair, A. H. Atherton and others; to deal in bicycle improvements. Capital stock, $30,000.

Stewartville, Minn.—Howard N. Stillman, bicycles, sporting goods, etc., has opened up for business.

Syracuse, N. Y.—The Snow Cycle Chain Co. has been incorporated, with a capital stock of $10,000.

Worcester, Mass.—The Lovell Arms & Cycle Co. have opened new store, which is conducted under the management of Geo. S. Davis.

Changes and Improvements.

Boston, Mass.—Peerless Bicycle Clothing Co., manufacturers bicycles, reported to have dissolved partnership.

Brockton, Mass.—Senter & Christie, bicycles, reported to have dissolved partnership.

Bryant Pond, Me.—O. A. Haniford has purchased the old chair factory, and will manufacture wood rims for bicycles.

Charlotte, N. C.—Marsh J. Heizer, bicycles, reported to have sold out.

Denver, Col.—Perkins & Shields, bicycles, H Shields sells interest to Mr. Ferkins.

Greeley, Col.—Olsen & Baker, bicycles, reported to have dissolved partnership.

Holyoke, Mass.—A. S. Schofield & Co., bicycles, reported to have dissolved partnership.

Lapeer, Mich.—Alvin Peter, of Toledo, Ohio, will remove all the manufacturing interests of his father, who has placed him at the head of his business affairs, to Columbiaville. They include bicycle and wagon works.

LaPorte, Ind.—The Crown Cycle factory has been sold to J. Sons, who will manufacture wheels on a limited scale, and utilize a portion of the factory for the manufacture of harness.

Milwaukee, Wis.—The Chief Cycle Co. is erecting a new $2500 addition to its plant.

Nashville, Tenn.—Charles Hord, bicycle repairer, will go to Augusta, Ga., where he has accepted a position with the repair firm of Field & Kelley.

New London, Conn.—The Owen Mfg. Co., makers of high grade bicycles, with shops in the main building of the New London Gas & Electric Co.'s works, will remove its plant to the Hill Street schoolhouse within a few weeks. The interior will be remodelled somewhat for its new use, and, it is expected, make an admirable place for the bicycle factory.

New York, N. Y.—Burkart & Widmayer, bicycles, etc., reported to have dissolved.

Springfield, Mass.—The Industrial Cycle Co. is preparing to enlarge its plant.

St. Paul, Minn.—F. M. Smith & Bro., bicycles, succeeded by F. M. Smith.

Washington, D. C.—Jones & Burr, bicycles, reported to have dissolved partnership. Succeeded by Jones & Fellows.

Westfield, N. J.—William P. Schriven has purchased the stock and fixtures of W. B. Elliott & Co., bicycle dealers and repairers, whose store is at Broad Street and North Avenue.

Wilmington, Del.—The McDaniel Cycle Co. has re-purchased from E. G. Sawdon the bicycle store and repair shop at No. 1011 Market Street, and will take charge of the establishment at once.

Recent Embarrassments.

Bloomington, Ill.—S. S. Haggard & Co., dealers in bicycles, etc., have assigned.

Grand Rapids, Mich.—The Souvenir Wheel Co., a well-known local bicycle firm, filed a trust mortgage for $10,000, to which sum labor claims must still be added. The company has suffered from overproduction the past two seasons.

New Haven, Conn.—Ralph J. Kirby, the bicycle dealer, has made an assignment, naming Carl F. Stahl as trustee. The liabilities and assets are small.

Providence, R. I.—Walter J. Taylor, bicycles, etc., reported to have made an assignment.

Recent Fires.

Buffalo, N. Y.—Fire was discovered in the five-story brick building occupied by the Electric Wheel Co., at Nos. 57 and 59 Franklin street, about eight o'clock some evenings since. The flames were confined to the top floor, where they started, and a total damage of about $13,000 was done before they were extinguished. The detailed loss is $10,000 to the wheel company on bicycles and machinery, and $3000 to the buildings.

Marietta, Ohio.—The E. J. Lobdell bicycle factory, destroyed by fire at a loss of $50,000; insured for $20,000.

Miscellaneous.

London, Eng.—The Hon. Sir Ford North, Judge of the Chancery of the High Court of Justice, has refused an application to enjoin the National Cycle Show, which opened at the Crystal Palace December 3d, from holding its exhibition unless it includes American machines. The petitioner was allotted space, which was subsequently withdrawn when it became known that he intended to exhibit American wheels. Justice North, in rendering his decision, said that if the plaintiff succeeded at a trial of the case he would be entitled to substantial damages; but it would be an injustice to the defendants to order a specific performance.

Richmond, Ind.—Isham Sedgwick, inventor of the first machine to weave wire fence, which made him a fortune, has just invented a driving apparatus for motor vehicles of all kinds, built on entirely different principles from those now in use. The machinery of Sedgwick's motor can be driven by compressed air, gasoline or electricity, and it transmits twenty-five per cent. more power than any yet constructed, he claims.

Washington, D. C.—Information has been received at the War Department of the adoption of a new folding military bicycle for the Belgian army. A detachment of twenty rifle cyclists of the Belgian service were detailed to test the merits of the machine, and the order of adoption followed the report of their operations. The detachment used the wheels for a month, covering a large number of miles. For twenty days the riding was over soft roads. At the stopping places reconnoissances were made, and the soldiers found it easy to carry their wheels over streams and through woods and fields. The machines stood the test extremely well. They can be folded and carried on the back, and the detachment found that they could fire, kneeling and standing, without inconvenience, while the machines were in that position. The detachment averaged 100 kilometres a day for thirty days.

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Challenges the World for

SIMPLICITY,
DURABILITY,
ACCURACY.

Don't fail to list it--you'll surely need it.

Electrotypes ready--furnished free.

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113 Chambers St, New York.

STERLING BELLS.



One Best THE Sterling.

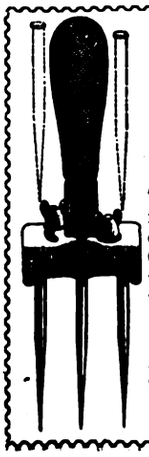
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East Hampton, Conn.

DOUBLE STROKE A.1.



DUNBAR BROS.
BRISTOL, CONN.



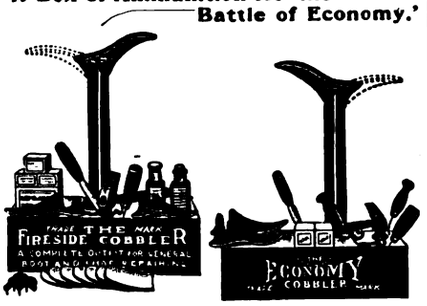
Parker Ice Tools.

The only combination tools made. Our Shave can be changed into an awl. . . . Crushers for Ice Cream Manufacturers are sold all over the country. . . . . .

SEND FOR CATALOGUE.

PARKER ICE TOOL CO.,
WORCESTER, MASS.

"A Box of Ammunition for the Battle of Economy."



These two Outfits, the "Fireside" and "Economy" Cobbler are GREAT and POPULAR sellers,—just the thing for the times. Send for list and prices of our FULL LINE OF COBBLERS' SETS. "Buckeye" Iron Lasts and Stands and "Plymouth Rock" Halfsoles.

For Sale by all up-to-date Hardware Dealers.

THE ROOT BROS. CO.,
Originators and Sole Mfrs. Plymouth, Ohio.



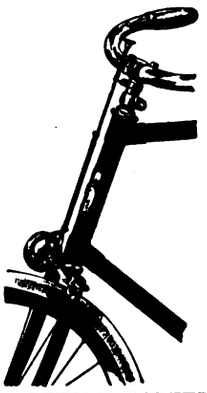
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We handle everything wanted at Chicago office, 48 Canal Street.





"The SUCCESS OF THE PHILADELPHIA SHOW" . . .
WAS THE
OSTERMAN BICYCLE BELL.

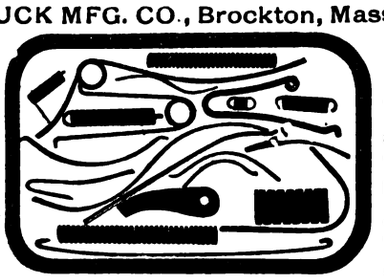
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The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out
Quickly adjusted to any wheel.
Strong, Simple.

AGENTS WANTED IN EVERY TOWN.
MADE ONLY BY
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Geo. P. Marks & Co.,
HARDWARE MANUFACTURERS' AGENTS.
Representing Leading Manufacturers.
(Accounts Solicited.)
304 Magazine St., New Orleans, La.

TUCK MFG. CO., Brockton, Mass

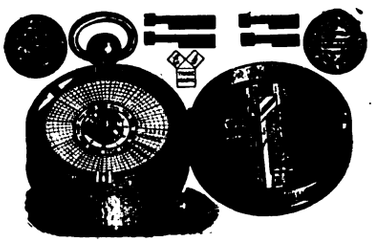
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Send for Tool Catalogue.

Tempered Springs of all kinds.

Watchman's Improved Time Detectors



12 and 24 different Keys, with Safety Lock Attachments. U. S. Patents, 1876-76-77. Re-Issue, 1880. Trade Marks 1881, 1883.

1876. Highest Award and Medal of Honor at the Centennial Exhibition, for Portability, Security, and general adaptation for purposes intended.

1877, 78, 79. Medals for Excellence and Superiority at the American Institute.

1881. Award at the International Cotton Exposition in Atlanta.

1883. At the National Exposition for Railway Appliances at Chicago, the only Medal for the most Complete and Perfect Instrument.

This Watchman's Time Detector contains all the modern improvements. The only perfect instrument in the market. Warranted in every way. It cannot be tampered with successfully.

E. IMHAUSER,
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The Chicago Rolling Ladder

Especially Adapted for Hardware Stores.



THE CHICAGO ROLLING LADDER.

The first requisite for a store ladder is **ease of operation.** The Chicago is the only ladder of the style shown above that does work easily. If you would save one-half your labor, fit your store up with either the **Chicago** or **Bicycle Step Ladder** system. Write for Catalogue illustrating our 4 distinct ladder systems to

The Bicycle Step Ladder Co.,
50 STATE STREET, CHICAGO, ILL.

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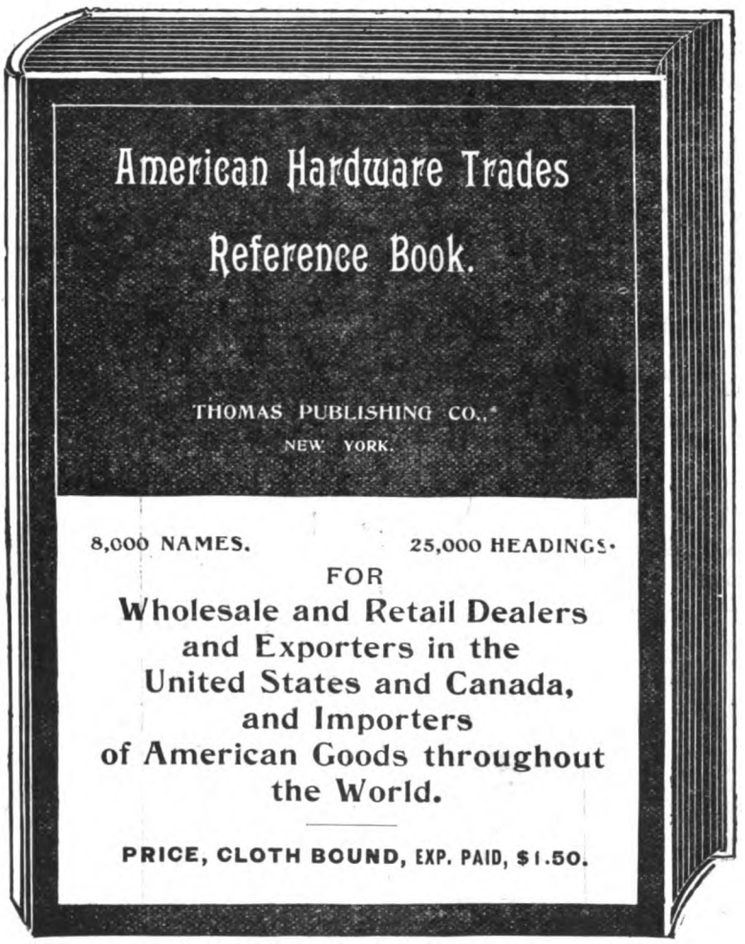
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The object of the work is to enable the above trades to instantly find all the manufacturers of any article desired; the main and branch offices of every manufacturer in the trade, and the financial rating of every manufacturer.

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WHOLESALE DEALERS IN

GENERAL WOODENWARE.



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LACLEDE & HERCULES BATTERIES

For Door Bells, Telephones, and Annunciators.

WARRANTED stronger and longer lived than any other Sal-Amoniac Battery made. . . . . .

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To Bicycle Riders.

WE MAKE OUR TUBE
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Because a Tube like this of our Is just as strong as a Tube like this of

.50% CARBON STEEL

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While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long

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NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory coroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

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Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

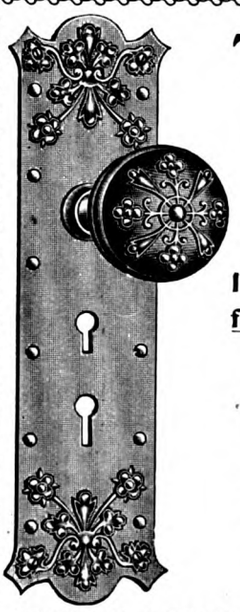
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

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Sets Complete.
Bell Pushes, Etc.

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THE NEW REFRIGERATOR.

The only Removable Tank Refrigerator having a positive circulation of dry air by means of removable flues. Has a larger ice capacity than other Refrigerators This saves ice and makes your customers happy.



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Barbers Adjustable,

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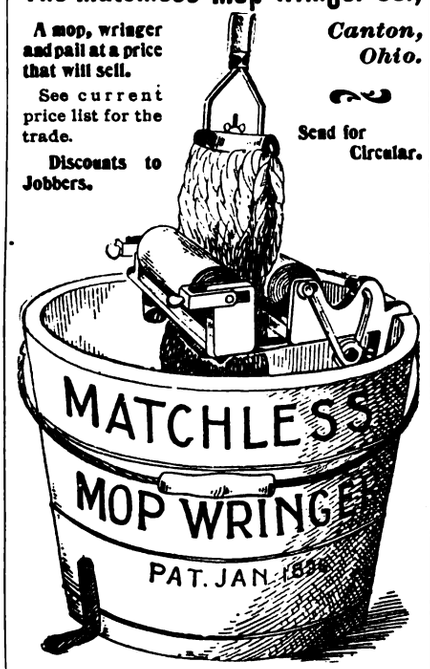
Canton, Ohio.

A mop, wringer and pail at a price that will sell.

See current price list for the trade.

Discounts to Jobbers.

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"With Gratifying Results"

New York Belting & Packing Co., Ltd., New York. [*Belting, Garden Hose, Water Hose, Steam Hose, Packing and Rubber Specialties*]: We have been carrying quite a prominent advertisement in HARDWARE with gratifying results. That we expect to continue this advertisement is the best evidence we can give of our regard for it as an excellent medium.

FIT FOR THE TABLE OF A KING OR QUEEN.

THE

ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

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Factories:
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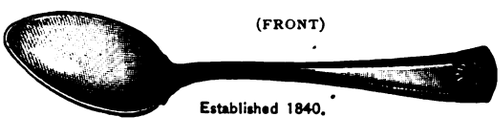
Salesrooms:
HARTFORD, CONN.

Highest Grade of

Silver Plated Ware

In Spoons, Forks, Etc.

Manufactured by



Established 1840.

L. BOARDMAN & SON, East Haddam, Conn.



Also Nickel Silver Flat Table Ware and Britannia Spoons.

Write for Catalogue and Prices.

AGENCY **JOSEPH RODGERS & SONS, LTD.**

THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when

THE VERY BEST

can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF

JOSEPH RODGERS & SONS, LTD.,

SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS,
TABLE CUTLERY,
SCISSORS,
RAZORS,
HUNTING and BOWIE KNIVES,
POCKET CUTLERY, &c.

Its Corporate Mark

Is among the oldest, and now over **200 YEARS** old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
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Established 1836.

ALFRED FIELD & CO.,

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Importers of

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Sole Agents for

JOSEPH RODGERS & SONS, LIMITED,	BEST CUTLERY IN THE WORLD.
PEUGEOT FRERES, COATES CLIPPER MFG. CO.	HORSE AND TOILET CLIPPERS.
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ISAAC GREAVES,	SHEEP AND GARDEN SHEARS.
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R. & J. LINACRE,	GRASS HOOKS, SICKLES, ETC.
WEBSTER & HORSFALL,	PIANO AND STEEL WIRE OF ALL DESCRIPTIONS.

Proprietors of the following brands of Cutlery:

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Goodell Company, Antrim, N. H.

Simply to remind you that we make the best line of

CUTLERY

FOR THE HARDWARE TRADE,

and those who want a p osperous and satisfactory Cutlery trade in 1898, will do well to tie to it. . . . . **Sold by the best Jobbers.**

. . . CATALOGUE FREE . . .

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77 Chambers St., New York.	516 Boston Block, Minneapolis.	23 Davis St., San Francisco.	216 Northern Office Bldg., Chicago.	32 Hopkins Place, Baltimore.

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Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office, Northampton, Mass.

New York Office and Salesroom 96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears



ACKNOWLEDGED THE BEST

Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

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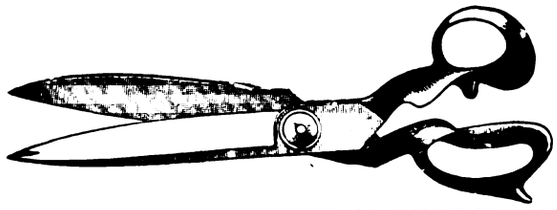
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WHEN YOU WANT THE

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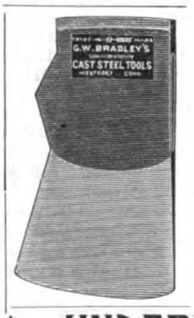
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J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .



Extra Quality Axes.

Wide Bit,	Long Island,
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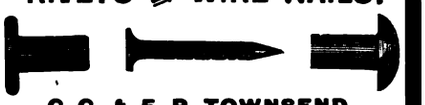
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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
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OVAL, BEVELED, TRIHATERAL, HEXAGON.
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
—HIGH GRADE.—
Price per gro. $5.00.
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LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

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Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
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HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.

Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
GENEVA, OHIO.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application


SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
Established 1870.
. . . Manufactured by
James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filtration Co.,
564 Washington Street, Boston.

EACH YEAR RECEIVED BETTER RESULTS.
Standard Tool Co., Cleveland, Ohio. [Tools]: During the five years we have had an advertisement in HARDWARE we have each year received better results.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

WANTED, a man to act as buyer or manager for a first-class wholesale and retail house in one of New York's best cities. Must have $15,000 or $20,000 capital. A good investment and a good position for the right man. Address "M. Z. K.," care HARDWARE, No. 143 Chambers Street, New York.

A MAN wanted to take charge of a retail Hardware store at Syracuse. State terms and experience, and address "LOOMIS," care HARDWARE, No. 143 Chambers Street, New York.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

AN experienced Hardware salesman, acquainted with buyers in the cabinet and furniture trades of New York and vicinity, to sell goods on salary or commission. German preferred. Address, stating age, experience references and salary expected. J. N. T., care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

WANTED—First-class traveling salesman to canvass manufacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

SEVEN years with one of the largest and best known wholesale Hardware house on Chambers Street, N.Y. At present have one-half interest in retail Hardware and tool business. Will dispose of this January 1st, and will be open to an engagement as buyer, manager or any position from stock to bookkeeping. Make an offer if you are looking for an all round man. Age 27, references. TAYLOR, care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

DIE MAKER, A No. 1 practical die and tool maker, well up in all latest improved dies and tools for novelty and general Hardware, dies for blanking, drawing, stamping, forging, etc. for all sheet metals, as brass, iron, steel and aluminum. Well up in modern shop methods to increase production, also automatic dies, feeds, stops, etc. Can design and develop ideas, ten years' experience in best shops in Massachusetts and Connecticut. Age 30. Can accept January 1st, '98. Best references as to ability and character. Address, DIE MAKER, care HARDWARE, No. 143 Chambers Street, New York.

WANTED, by a practical die and tool maker. a position as foreman or superintendent, familiar with typewriter, sewing machine, clock and bicycle work; has had experience at the bench, drawing board, and superintendent. Can handle men with good advantage and good results. Age 30. Can accept January 1st, '98. Best references. Address CONN, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A HARDWARE salesman desires a position in a first-class wholesale or retail Hardware store. Six years' experience. Good references. Will go anywhere. Address A. J. Y., BOX 208, Yarmouth, Me.

A FIRST class stove pattern maker wishes position in pattern shop-fast worker neat and artistic. Address GOOD MAN, care Hard, ware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, North Carolina.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B, Toledo, Ohio.

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Situations Wanted.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

WANTED by a practical mechanic, with a good education and 17 years experience in working iron and steel, managing help, buying of mil supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., care HARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport. Conn.

POSITION by a young man, Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G. G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experieneed man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a man 33 years of age, seven years' experience with Hibbard Spencer Bartten, & Co., Chicago, in general office work; understands bookkeeping thoroughly and good at figuring of any kind. Salary moderate, reference the best. A. E., care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. Box 1464, Boston.

Side Line Wanted.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L., care Forest City House, Cleveland, Ohio.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

Side Line Offered.

LINE of legitimate Hardware wanted by traveling man of 12 years' experience with established trade through Iowa, Minnesota and Wisconsin. A No. 1 references. Address G. 100, care HARDWARE, No. 143 Chambers Street, New York.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

WE offer good side lines to those calling on Hardware, implement, furniture and department stores, wholesale and retail. Address ULRICH MFG. CO., Rock Falls, Ill.

For Sale.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

MUST be sold before the holidays, clean stock of Hardware with fine cash trade. Capital required $2500 to $3000. This is a Klondike for some one. P. O. Box 90. Castile, N. Y.

A good chance for business $2,000 will buy stock and fixtures of a well established Hardware store, in a live and growing town of about 5000, in New Jersey, and numerous small towns around. Good business can be done. Proprietor has other business and cannot give his entire attention to it. Address C. B., care HARDWARE, No. 143 Chambers Street, New York.

FOR SALE, retail Hardware store making money and increasing business. A good chance to obtain established business. Other business, reason for selling. J. S. M. care HARDWARE, No. 143 Chambers Street, New York.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address Box 90, care HARDWARE, No. 143 Chambers Street, New York.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Attention Agents.

AGENTS make $5.00 to $10.00 per day selling Aluminum Sign Letters, Door Plates, House Numbers, Street Signs, Aluminum Bicycle Chain Guards and Novelties; exclusive agency; write quick. J. W. BARNETT, Manager, Columbus, Ohio.

Agency Wanted.

MR. MANUFACTURER: Are you properly represented in Boston and New England? I sell to the Hardware, woodenware, kitchen-furnishing and department store trade. Can add a good line to my present ones, and give it proper attention. I have an established office, and an established trade. Address MANUFACTURERS' AGENT, Box 1561, Boston, Mass.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Hardware Stock Wanted.

WANTED to buy a half interest in a well established Hardware and Builders' Supply Business. Must be a paying business. Address W. C. S., care HARDWARE, No. 143 Chambers Street, New York.

WANTED to exchange, real estate in Indianapolis, Ind. for stock of Hardware. Box 44, Washington C. H. Ohio.

Partner Wanted.

SPECIAL partner wanted with $10.000 to open a cash Hardware and cutlery house in this city. Business largely job lots and manufacturers bargains. General partner has many years' thorough experience, and controls $100,000 of business. Only bona fide correspondence from principals accompanied by real name, will be acknowledged. Address G. O. P. care HARDWARE, No. 143 Chambers Street, New York.

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Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware. GRISWOLD MFG. CO., Erie, Pa.

ESTABLISHED 1841
DUNBAR BROTHERS
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM
SHEET STEEL · STEEL · BRASS WIRE
BRISTOL CONN. P.O. BOX 416



BOOMER STEEL RANGE,

With High Closet.

Rolling Front. Six Holes. Stationary or Portable Reservoir.

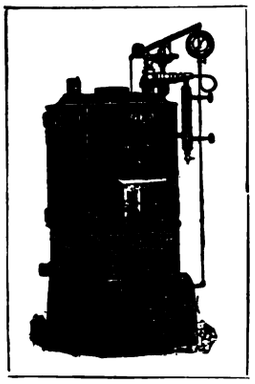
Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

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When you want a GOOD FURNACE don't forget the

CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street, MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

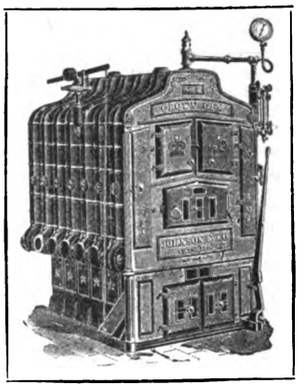
FOR HOT WATER and STEAM HEATING.

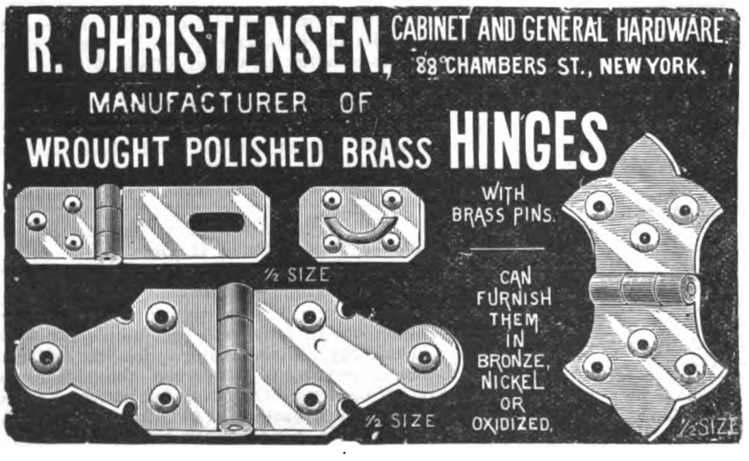
GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.





"Has Our Esteemed Favor."

Edward Darby & Sons, Philadelphia, Pa. [*Wire Goods*]: For the past few years we have been in HARDWARE, and we beg to remind you that it has our esteemed favor, and will recommend the same to anyone desirous of a good, useful, common-sense trade journal such as HARDWARE is.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... 40&12½%
Railroad.....

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting.....15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00.....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge.....35&10&2%
First quality, 14, 16 and 20 gauge $7.50.....30&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&5%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag.....$1.23
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag.....$ .35
Buck Shot, 25-lb bags, ₩ bag...$1.47
Buck Shot, 5-lb bags, ₩ bag.....$ .35
Chilled Shot, 25-lb bags, ₩ bag..$1.50
Chilled Shot, 5-lb bags ₩ bag..$ .35
Dust Shot, 25-lb bags, ₩ bag....$2.00
Dust Shot, 5-lb bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Ducking, kegs ..6¼ lb 2.25
(For 1000 lb lots 10% discount.)
Blasting and Mining, A..25 lb 2.25
Blasting and Mining, B..25 lb 1.50
Laflin & Rand W.-A. Smokeless:
Sing'e Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each.....45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each.....30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each.....45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each.....35
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each.....15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each.....13

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black..... 41.00
Drum, equal in bulk to 100 lb, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....₩ doz. $3.80
Galien Safety.....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz. $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burton's, No. 2....₩ doz. pairs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs. $1.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ₩ lb 9c.....15@15&5%
Hay-Budden, Wrought.... 8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..30%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Ball hangers' bit.....40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....25&10&10%
Cleveland Wood Bits for Brace.
Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. M Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $14.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....30%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $60....50@50&10%
Steer's No. 1, $26; 2, $18.....40%
Stearns' No. 2. $48.....30%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@50&10%
Double Cut, Common, ₩ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&10@70%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@7 %

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....35%
Dunlap's Handled.....25%
Handled Brad, ₩ gr.....$3 00@$3.25
H'ld Scratch ₩ gr.....$3.75@$4.00
Pat. Peg ₩ gr.....33@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr.....$1.35@$1.45
Shouldered Brad. ₩ gr...$1.50@$1.65
Socket Scratch ₩ doz....$1.00@$1.10
Stanley Rule & Level Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $18..15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands. $5 00@5.25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $35.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:

No.	2000	20	30
₩ doz.	75c	85c	$1.65 net

Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....35%
Tinned, each, $7.50.....30%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....35&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $5, 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, ₩ doz. $15.00.....45%
Ives'₩ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..₩ doz. $3..33⅓@33⅓&10%
Excelsior..₩ doz. $10.00....50&10&2%
N rth's.....10%
Zimmerman's....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₩ gro. sets.....$5.50
Gorhams Improved Star Tenon ₩ gro. $1.00.....25%
Merriman's Brass Lever ₩ gr. $15.00
Merriman's Iron Lever ₩ gr...$9.00
Millers Falls ₩ set $1.00.....15&10%
Security Gravity ₩ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ₩ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....3[illegible]
Perfect Safety.....30%
Stowell Novelty Block.....50&10%

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Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—
Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&5@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—
Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..5&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—
American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 26, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 15, '84.....80%

STOVE AND PLOW—
Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—
Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—
Enterprise.....20%

Borers, Tap—
Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—
1¼ inch, ₩ gro.....$4.50@$5.00
1 inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—
Heller's.....40&5%

Braces—
Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American.$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114½.....60&10%
No. 208½@216½.....60%
Lancaster Mach. & Knife Works.45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—
Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—
Standard list.....85@85&10%

Bull Rings—
Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—
Beatty's.....40&5@40&10%
Bradley's.....80@80%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....80%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & I. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....80%&5&10%

Bung Hole Borers—
Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—
Ordinary Black Handle.....25%

Butt and Rabbet Gauges—
Stanley's.....25&10%

Butts—

BRASS—
Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.4.@40&10%

CAST IRON—
Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow.....60@60&10%

WROUGHT STEEL—
List, April 1, 1895.
Bronsed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow, Fast Joint, Narrow, Fast Joint, Light Narrrow, Fast Joint, Broad, Loose Joint, Loose Pin, Table Butts, Back Flaps, etc.. } 75%

Can Openers—
American.....₩ gross $1.75@$1.90
Champion, ₩ doz. $2.00.....50%
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $13.00.....25%
Dunlap's Sardine Scissors, ₩ doz. $5.00.....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ₩ gr. $8.00; ₩ doz.75c
No. 5, Iron Handle, ₩ gr....$2.00@2.25
Sardine Scissors...₩ doz. $2.00@2.25
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2 50.....70%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $13.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—
Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—
Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz.75@$1.00
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—
Bissell's:
Gold Medal.... } Cyco-Bearing ..₩ doz. $24.00
Grand..... ..₩ doz. $36.00
Grand Rapids. ..₩ doz. $22.00
Hall..... ..₩ doz. $60.00
Prize..... ..₩ doz. $24.00
Premier..... ..₩ doz. $24.00
Superior..... ..₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $21.00
Furniture Protector, Japan.....₩ doz. $22.00
Furniture Protector, Nickel.....₩ doz. $24.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per dos. less.

TOY LINE—
Baby.....₩ dos. $3.50
Child's.....₩ dos. $3.00
Little Jewel.....₩ dos. $6 00
Little Queen.....₩ dos. $4.00
Minsee.....₩ dos. $9.00
Quantity rebates on application.

Casters—
Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....25%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phœnix). 60@60&10%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—
Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....65%&5
Sargent's.....70&10@70&10&10%

COW TIES—
American.....60&10%

Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Sisal.....33⅓%
Triumph.....33⅓%

Chain—
American Coil, Ass'n cask prices.
3-16 ¼ 5-16 ⅜ 7-16 ½ ⅝ ¾
$5.50 4.10 3.10 2.75 2.70 2.50 2.35 2.25
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Cherry Stoners—
Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—
Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale, Mix, Ohio Tool Co., P. S. & W., Sag Harbor Tool Co., Swan, Winsted Edge Tool Co..... } 75&10&5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—
Rox.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....20%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to $
Tanged Firmers'.....50@50&10%

Chucks—
Beach Pat....each $8.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $8.50; No. 2, $12.50.25%

Clamps—
Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's...45&10%
Carpenters', Cincinnati.....25&10%
Carriage Makers', Sargent's..50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—
Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clips—
Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—
Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....30
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—
Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....25%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—
Bradley's.....20%
Barton's.....30@30&5%
Beatty's.....33⅓%
L. & I. J. White.....30@30&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—
Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40&10@50%
Samson.....₩ dos $10.00
Williamson's.....40%

Corn Hooks—
Kretzinger Cut-Easy, ₩ dos. $3.00 net

Corn Knives and Cutters—
Bradley's.....10%
Wadsworth's.....25@25&10%

Counter Sinks—
Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—
Sargent's List.....20%
Dixon's
Eclipse.....₩ gro. $2.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.51
Solid.....₩ gro. 7.50

Curry Combs—
Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—
Lane's.....33⅓&5%

Diggers—
See Post Hole, etc.

Dog Collars—
Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—
Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—
Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—
Champion (Coil)...50&10@60&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ dos. $5.50. 60@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₩ dos $1.25@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—
Sargent's List.....60%

Drawing Knives—
Adjustable Handle.....40@40&10%
Bradley's.....25%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, P. S. & W., Witherby..... } 75&10&5%
Watrous.....30@30&10%
L. & I. J. White.....20&5@25%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—
Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No, 12, ₩ dos.....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....60@60&10%

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Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting..33⅓%
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....30@30&5%
Ratchet, Moore's Triple Act..25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....30&10%
Ratchet, Weston's.....30@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00: Adjustable No. 10, $12.00.....33⅓%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$3.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$3.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5 c. ea., less 5 %
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each, less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$3.00 ea., less 50%
Spark Coils, 10 pt $3.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 80c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft., less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $3.50 each, less 50%
Zincs, Leclanche...04c. ea., less 5%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF FF.
Kegs, ₩ lb..4½c	5c	8c	
½ kegs, ₩ lb.4½c	5½c	8½c	
¼ kegs, ₩ lb. 5c	6½c	8½c	
10 lb cans, 10 in case.... 6c	6½c	8½c	
10 lb cans, less than 10.. 10c	10c	8c	

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....60%
Fravy's Pat. Petroleum.....60&10@70%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork Lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7¼ inches, (anti-tip-over)	5.50	6.50	7.00
Dairy Pails, 14 qt.	3.30	3.80	4.30
Fire Pails, 14 qt., stencilled "fire"	3.40		
Fruit Bowls	1.20	1.70	2.00
Keelers, 11½ inch	2.80	2.80	3.10
Milk Pans	1.50	2.00	2.20
Mats, 8½ inch (for table use)	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover)	6.50		
Pitchers, 10½ in. high..	4.00	4.70	5.20
Peck Measures	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt....	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers).....	3.60	4.50	5.00
Spittoons, 13 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4.00	4.50
Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2.10
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls,.....	2.30	2.90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Derby.....75& 10%
Economy.....75&10%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓%
Royal.....75%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00 No. 2, $2.50 No. 3, $1.50 No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (60c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc.75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@8o%

No	0	1	2	3	4
₩ doz.	$3.00	$3.75	$4.25	$4.75	$5.25
No	5	6	7	8	
₩ doz.	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓%
Clapboard.....20%
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ₩ doz $3.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $13.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'.....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₩ gr. $1.50
Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....60%
Spike Gimlets:
Assorted 1, 2 and 3.....₩ gr. $3.00
Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....40@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....30%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Wooding.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....50&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail..40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..25&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c
3 to 5 lb.....₩ lb 35c } 75@80%
Over 5 lb.....₩ lb 30c
Wilkinson's Smiths....9½c@10c₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@ 50&10&10%
Door or Thumb:

Nos.	0	1	2	3	4
Per doz.	$ .90	1.00	1.08	1.35	1.50

50&10@70%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.00
Japanned, with Plate.....$1.10
Japanned, without Plate.....85c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@.0&10%
Push Plates, Sargent's List..60@ 0 @10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10%
No. 2 to 3¾.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00
Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, sledge, etc.....50&2%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@ 60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00....60&10&10%
Cronk's Steel cov'd Loose Axle, 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....60 &5%
New Model.....4 &10%
Parlor, Standard.....4 &10%
Standard.....60&10%
McKinney's "None Better," No 2, $18.00; No. 1 Special, $14.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 63½c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd..60&10@60&10&10%
Stowell Barn Door:
Badger.....0 &10
Climax.....5 &
Interstate.....60 &15%
Magic.....50%
Matchless Covered.....60& 0%
Wild West.....5 %
Zenith.....55%
Baggage Car Door.....33⅓%
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&2½%
Warner's Pat.....30&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....35&10@35&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&7½%

He ge Shears—
Wm. Wilkinson & Sons 50%

Hinges—
WROUGHT IRON HINGES—
Corrugated Strap and T..7½@75&5%
Rolled Blind Hinges Nos. 23 and 24 50&10@50&10&5%
Rolled Plate, Rolled Raised ..... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb, 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb..2½c; 14 to 20 in., ₩ lb..3½c; 23 to 36 in., ₩ lb..3 c
Strap and T..... 75@75&5%

SPRING HINGES—
Acme ..... 80@10%
American 20%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts..40%
Gem ..... 30&10%
Kell's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $13.00
Oxford ..... 30&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double.60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 20%
Union Mfg. Co 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 30%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E...₩ doz $7.80 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State..₩ doz $4.90..60@60&10%
Reed's Latch and Hinges...₩ doz $13.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3, 50&10@60&10 &5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 80&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 50&10%
Nos. 40 and 50 ..... 80%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 12, 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 50&10%
Buffalo Gravity Locking, Nos. 1, 2 and 5 ..... 80&10&5%
Champion Gravity Locking, No. 75 ..... 60&10&10%
1888, Old Pat'n, Nos. 1, 2 and 5, 50&10%
Tip Pattern, Nos. 1, 2 and 5, 80&10&5%
Double Locking, Nos. 20 and 25..75%
Empire, Nos. 10 and 101 ..... 80%
Niagara Gravity Locking, Nos 1, 2 and 5 ..... 80&10%
Noiseless, Nos 50, 60, 65 and 55..80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 060, 45 and 5½..75&5%
Steam oat Gravity Locking, No. 10 ..... 80&10&5%
Stenger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.30 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—
HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy..₩ doz. $4 50 net
Cotton ..... 80&12½%
Dunlap's Boys', Ladies', Toy 30%
Garden ..... 75&20%
Mortar ..... 75&25%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe... ....₩ doz. $8.75 net
Planter's ..... 80&15%
Texas Cut-Easy ..... ₩ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 80&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 20@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes..$3.00@$3 25
Ringers ..... ₩ doz. 50@75c
Perfect Rings ..... ₩ gro. $7.0 @$7.50
Perfect Ringers ..... ₩ doz. 80c

Hollow Ware—
IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware..70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 10&10%
White-Ware ..... 25&10%

STOVE HOLLOW-WARE:—
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans..62½@65%
Maslin Kettles, ..75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—
BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list...60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list...5&10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list....50@50&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme...60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard....45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.6 : 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4½c

Horse Nails—

	Nos. 6	7	8	9	10
A. C.	25c	25c	25c	21c	21c.

40&10%
American, all sizes, 9½@10c ..... net
Ausable ..... 28c 26c 25c 24c 23c. 40&10&5%
Anchor ..... 23c 21c 20c 19c 18c 40%
C. B. K. 25c 23c 22c 21c. 21c 40%
Capewell ..... 19c 18c 17c 16c 16c..10&5%
Champlain..25c 25c 25c 24c 23c 40&5&2%
Clinton Fin..19c 17c 16c 15c 14c. 30&10&5%
Empire Bronzed 10c
Essex ..... 23c 23c 25c 24c 23c. 40&10@50%
Lyra ..... 9½c 9½c 9½c 9½c 9½c., net
Maud S. ..... 25c 23c 23c 21c. 21c 50&10&5%

	Nos. 6	8	9	10
Northw't'n.	25c	23c	23c	21c 20c.

25@25&5%
Putnam ..... 23c 21c 20c 19c 18c 25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan ..... 23c 21c 20c 19c 18c 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick....₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20..25%
No. 34 ..... ₩ doz. $15.00..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@30%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.50,..20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel...₩ doz..$1.70@1.80
Drawer, Porcelain..60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl Side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.00
No. 200 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers ..... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L. ..... 70&10%
Styles A., and E. ..... 60&10%
Styles, D., D. O. W., M., S., T. ..... 70&10%
Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 35%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1, ₩ doz. $12.00; No. 2, $15.00; No. 3, $34.00..35%

Lemon Squeezers—
Berger Bros. ₩ doz. 3-in. $1.00; 10-in. $1.40 ..... 20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.35 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.00
Jennings' Star...₩ doz. $1.90@$2.00
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood ..... ₩ doz. $6.00 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 60@60&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 25&10%
Iron Bench, new design ..... 25&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's..50%
Cotton Chalk, 20 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50 ..... 10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—
DOOR LOCKS, LATCHES, &C.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 60&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 30&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co's:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 22 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 25%
Stoddard Lock Co ..... 30@33⅓%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Dietz 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 31 ..... 40&5%
Scandinavian ..... 90&40@90&40&10%
Smith & Egge Bicycle 50%
Wrought Iron ..... 75@80%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 25%
Eagle 25%

Mallets—
Sargent's List
Hickory ..... 50@25&10%
Lignumvitæ ..... 50@25&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters—

American 30%
Nos....1 2 3 4 5
Each..$5 $7 $10 $35 $50 $60
Beef Shavers (Enterprise) 20%
Chadborn's Smoked Beef Cutter, ℔ doz $60.00
Dixon's ..... ℔ doz 33⅓%
Nos..... 1 2 3 4
$14 $17 $19 $30
Enterprise 25%
Nos.....10 12 22 32 42
Each...$3 $3.50 $4 $6 $15
Hales Pattern ℔ doz.....70@70&5%
Nos.....11 12 13
$27 $33 $45
Home No. 1..℔ doz $25..... 60%
Little Giant..... 50&10%
Nos. 305 310 312 320 322
$35 $43 $44 $72 $68
Miles' Challenge ℔ doz...45@45&10%
Nos..... 1 2 3
$22 $30 $40
Perfection ..... net
Woodruff's ℔ doz..... 33⅓%
Nos.....100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ℔ lb..25c
No Name..... ℔ lb..18c
Mystic..... ℔ lb.. 8c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise 20%

Mop Wringers—

Matchless (Canton, O.), ℔ doz.$12.00

Nails—

WIRE AND CUT NAILS—

See Trade Report for quotations.
Wire Nails and Brads, Papered, Ass'n list, May 1, 1892..... 87½%
Grand Crossing Tack Co. List:
Wire Brads..... 80%
Wire Nails..... 80%

FIXTURES—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent..... 40%
Porcelain Head, Comb'n list, 40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze..... 10%
China..... 25%
Fire Gilt..... 10%
Plain..... 40%

Nail Pullers—

Black Hawk, per doz..... $9.00
Giant, No. 1, ℔ doz $18.00; No. 1½, $16.50; No. 2, $15.00..... 30&5%
Lightning..... ℔ doz $18.00, 20%
National..... 40%
Pelican..... ℔ doz $9.00, 15&10%
Scranton No. 2..... ℔ doz. $10.00
Scranton No. 3..... ℔ doz. $9.00

Nail Sets—

Buck Bros..... 27½%
Cannon's Diam'd Point ℔ gr. $12, 25%
Dunlap's..... 20%
Humason's..... 50&10%
Hunters' Cup Point Knurled..... ℔ gro. $10.00
Hunters' Cup Point, Plain..... ℔ gro. $9.00
Round, assorted..... ℔ gr. $3.00@3.25
Square..... ℔ gr. $4.00@$4.25

Nippers—

Acme 50%
Smith's Cutting..... 50%
Todd's Cutting..... 50%

Nut Crackers—

Acme, Japanned, ℔ gross $30.00..40%
Turner & Seymour Mfg. Co..... 50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list..... $6.30
Hot Pressed, Square, off list..$6.30
Hex, off list..... $7.20
Tapped..... 50%

Oilers—

Brass and Copper..... 50&10%
Cushman & Denison's:
Pocket Oilers..... ℔ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass..... 70&10%
Steel..... 70&10%
Malleable, Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list..... 50&10%
"Paragon," Brass..... 50&10@60%
"Paragon," Zinc..... 70@70&10%
Tower & Lyon Bicycle..... 25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust..... 75%
Zinc and Tin ..... 70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ℔ lb..... 60
Rosy Red..... 60
Extra Green Paper Wrapper, ℔ lb..... .50
No. 1..... .40
No. 2..... .30

Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2½ to ⅝ at back, ¼ to 5-16 edge ℔ lb:
Lily White 90
Rosy Red..... 90
Extra, same sizes as above 80
No. 1..... 70
No. 2..... 40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ℔ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ℔ doz..... $12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x¾ to 1½, ℔ lb..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston" 60%
"Excelsior" Self-Vulcanizing, per lb 70c..... 40%
Boston "Phœnix" Red Sheet, per lb..... 50c.net
Extra..... 60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing.....9c@10c ℔ lb
Cotton Packing.....14c@15c ℔ lb
Italian Packing.....12c@14c ℔ lb
Jute .....6c@7c ℔ lb
Russian Packing.....13c@14c ℔ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance..... ℔ doz $4.50
Baldwin ..... ℔ doz 5.00
Bonanza..... each 5.00
Daisy ..... ℔ doz 3.50
Dandy..... each 7.50
Eureka, 1898..... each 16.00
Family Bay State..... ℔ doz 12.00
Favorite ..... ℔ doz 5.00
Gold Medal..... ℔ doz 4.00
Ideal ..... ℔ doz 4.00
Improved Bay State. ℔ dz..$27@30.00
Little Star..... ℔ doz 4.00
Monarch ..... ℔ doz 13.50
New Lightning..... ℔ doz 5.50
Oriole..... ℔ doz 4.00
Penn..... ℔ doz 3.00
Perfection ..... ℔ doz 4.00
Pomona..... ℔ doz 4.00
Reading, 72 ..... ℔ doz 4.00
Reading, 78 ..... ℔ doz 7.00
Rocking Table..... ℔ doz 5.50
Scott's Pat. Rotary, ℔ doz $15.00, 20%
Turntable..... ℔ doz 4.50
Victor..... ℔ doz 13.50
Waverly..... ℔ doz 3.75
White Mountain..... ℔ doz 4.00

POTATO—

Antrim Combination.... ℔ doz 5.50
Hoosier..... ℔ doz 13.50
Saratoga..... ℔ doz 5.50
White Mountain..... ℔ doz $4.50

Pencils—

Dixon's:
Carpenters'..... ℔ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead..... ℔ gro. 9.00
Lead..... ℔ gro $4.50
Lumber..... ℔ gro. 6.37
Mascot, Hexagon ..... ℔ gro. 3.38
Mascot, Round..... ℔ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $15.00..... 70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality..... 55%
Bench, Second Quality....60@60&10%
Fales Bench..... 25%
C. E. Jennings & Co..... 50&10%
Molding..... 50%

IRON PLANES—

Chaplin's Iron Planes..... 50&10%
Davis's Iron Planes..... 40@40&10%
Gage Tool Co.'s Self-Setting.... 25%
C. E. Jennings & Co., Iron ...5' & 10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's ..... 60@60&10%
Siegley's:
Bench..... 40%
Combination, each..... $4.50 net
Standard Tool Co..... 50@50&5%
Stanley Rule & Level Co.:
Bailey's...50&10&10@50&10&10&5%
Miscellaneous ..... 25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle"..... } 30&10@40%
Ohio ..... }
Sandusky..... }
Buck Bros..... 30%
Butcher's..... $5.00@$5.25 to $
Hinsdale..... 25&10%
C. E. Jennings & Co..... 25&10%
Stanley Rule & Level Co..... 50&10%
L. & I. J. White..... 20&5@25%

Pliers and Nippers—

Button's..... 70&10@70&10&5%
Carew's Pat. Wire Cutters..... 25%
Cronk's:
Button Pattern..... 70%
Gas Pliers, No. 100..... 40%
Stubb's Pat. Pliers..... 50%
Hall's Nippers, ℔ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers..... 70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ℔ doz $12.00 30&5%
Smith's Side Cutting..... 25%
Stubs'..... 30%
Swiss Pliers..... 25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's..... 40&10&10%
Davis':
Inclinometers..... 20%
Iron Levels..... 25&10%
Disston's..... 50%
Wm. Johnson's..... 75%
Plumb Bobs..... 40%
Pocket Levels.....70&10&10@75&10%
Stanley's..... 75&10&10%
Stanley's Duplex..... 25&10%
Wood's Extension Sight..... 33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods..... 25%
R. I. Tool Co., Handcuffs, $15.00 ℔ doz..... 10%
R. I. Tool Co., Leg Irons, $25.00 ℔ doz..... 10%
Tower & Lyon's..... 25%

Polish, Metal—

Prestoline Liquid, New List..... 40%
Prestoline Paste..... 33⅓@40%

Polish, Stove—

Dixon's Plumbago..... ℔ lb 8c
Joseph Dixon's..... ℔ gro $5.75, 10%
Gem..... ℔ gro $4.50, 10%
Lustro..... ℔ gro $4.75
Rising Sun..... ℔ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ℔ doz. $ .75; ℔ gr. $8.50 } 10@
1½ qt. ℔ doz. $ .85; ℔ gr. $8.00 } 15%
2 qt., ℔ doz. $1.15; ℔ gr. $12.00 }
Quincy Corn Popper, 1 qt., ℔ doz. $3.00; 2 qt., $4 00..... 33⅓%

Post Hole Diggers—

Ryan's..... ℔ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears..... 33⅓%
Disston's Combined Pruning Hook and Saw...℔ doz $18.00, 25@25&10%
Disston's Pruning Hook.....℔ doz $13.00, 25@25&10%
Dunlap's Saw and Chisel....℔ doz $3.50, 30%
Henry's Pruning Shears ℔ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears..... 60%
Pruning Shears, Henry's Pat. ℔ doz..... $3.50@3.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....℔ doz $12.00, 25&10%

Pulleys

Awning..... 60@60&10%
Axle..... 60&10@60&10&10%
Brass Screw..... 66⅔@70%
Ceiling..... 50@10@60%
Clothes Line, Japanned..60@60&10%
Common Sense..... 60%
Dumb Waiter..... 60@60&10%
Empire Sash Pulley..... 60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50..... 50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70..... 50%.
Hot House..... 50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ℔ doz $12.00..... 40%
Side, Anti-Friction..... 50%
Shade Rack..... 45%
Upright..... 50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 338, 3 in. Shallow Well Pump..... $13.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump..... $15.00
No. 5, Fig. 307, 3 in. Deep Well Pump..... $15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump..... $17.00
No. 14, Fig. 521, 3 in. Deep or Shallow Well Pump..... $15.00
No. 32, Fig. 523, 3 in Deep Well Pump..... $17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump..... $14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump..... $17.00
No. 70, Fig. 333, 2½ in Deep Well Pump..... $15.00
No. 72, Fig. 333, 3 in. Deep Well Pump..... $15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump..... $16.00
No. 102, Fig. 448, 3 in. Lift Pump..... $10.00
No. 103, Fig. 448, 3½ in. Lift Pump..... $12.00
No. 128, Fig. 510, 3 in. Lift Pump..... $7.00
No. 131, Fig. 510, 3½ in. Lift Pump..... $8.50
No. 225, Fig. 389, Windmill Pump..... $12.50
No. 230, Fig. 403, Windmill Pump..... $13.50
No. 235, Fig. 408, Windmill Pump..... $14.50
No. 240, Fig. 406, Regulator Pump..... $30.00
No. 280 Fig. 484, Imperial Cyclone Pump..... $18.00
No. 265, Fig. 572, Cyclone Tank Force Pump..... $17.00
No. 267, Fig. 483, Geyser Tank Force Pump..... $17.00
No. 268, Fig. 513, Low Down Tank Force Pump..... $16.00
No. 302, Fig. 477, Spray Pump complete..... $11.50
No. 320. Fig. 492, Bucket Spray Pump..... $5.50
No. 330, Fig. 547, Knapsack Spray Pump..... $10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving..... 40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive..... 50@5%
Check..... 55%
Spring..... 50&5%
Springfield Socket..... 65%
Morrill's Universal..... 35%
Niagara Hollow..... 45%
Niagara Solid..... 55%
Rand's Centering Marking Tool..25%
Rice's Hand..... 15%
Saddlers' or Drive, good ℔ doz..60@65%
Spring, good quality, ℔ doz $1.70@1.80
Spring, Leach's Pat..... 15
Tinners' Solid, P. S. & W. Co. ℔ doz..... $1.44, 55%
Tinners' Hollow, P. S & W. Co 20&2%

Rail—

Barn Door, Light, In. ⅛ ⅝ ¾
Per 100 feet..... $1.40 1.95 2.50
Barn Door, "None Better" No. 1, ℔ foot..... 2¾c
Barn Door, "None Better" No. 2, ℔ foot 3½c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet..$1.60 2.00 2.50
Carrier Steel Rail, ℔ foot..... 4½c
Cronk's:
Competition..... ℔ foot, 2½c
Common..... ℔ foot, 2½c
Double Braced..... ℔ foot, 2¾c
Lanes' O. N. T..... ℔ 100 ft. $3.40
Stowell's Wrought Steel..... 35%
Sliding Door, Bronzed Wr't Iron. ℔ ft. 6½c
Sliding Door, Iron, Painted...℔ ft 3c
Sliding Door, Wr't Brass, 1½ in. ℔ lb, 35c..... 30&10@40&5%
Terry's Steel Rail, ℔ foot..... 3½c
Victor Track Rail, 7c ℔ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme..... net ℔ doz. $4.00
Boss, Garden, 14 teeth, net ℔ doz. $3.60
Boss, Garden, 18 teeth, net ℔ doz. $3.75
Canton Lawn Rake...℔ doz. $3.50
Crown Lawn, No. 1....℔ doz. $3.50
Hustler, No. 0..... ℔ doz. $3.20
Lawn Rake..... ℔ doz. $4.75
Malleable..... 70&10@75%
Oneida Lawn..... doz., $3.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace..... 75&15%
Queen City..... 33⅓%

Razors—

Electric..... List net
J. R. Torrey Razor Co..... 20%
Wostenholm and Butcher, $10.00 to $..... 10%

Registers—

Stowell's:
Japanned..... 80&10%
Nickel-plated..... 75&10%

HOT AIR—

Ferrosteel, Japanned..... 80&10%
Ferrosteel, Nickelplated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

American Screw Co.:
Bay State Rivets..... ...75&10%
Burrs..... 75%
Soft Steel..... 80%
Copper.....60&10&5@60&10&10%
Norway, list Feb. 26, '96..... 70%

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Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..$ doz. $1.00 net
Screw Stay.....$ doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....$ lb 13 @14c
Medium, ¼ in. and larger.....$ lb 10 @12c
Common, ¼ in. and larger.....$ lb 8½@10c
Jute Rope.....$ lb 5½@6½c
Manila:
7-16 in. and larger.....$ lb 6 c
½ in.....$ lb 6½c
⅜ and 5-16 in.....$ lb 7 c
Hay Rope, Med.....$ lb 6 c
Sisal, ½ in.....$ lb 5½c
¼ and 5-16 in.....$ lb 6 c
7-16 in. & larger.....$ lb 5 c
Med. L'th Y'rn.....$ lb 4½c
Hay Rope.....$ lb 5 c

Rules—

Athol, Steel.....33⅓%
Boxwood..50&10&10&10@30&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....$ lb 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, $ dos. $6.50
Nickel.....$ doz. $7.00
Common 4 to 10.....$ lb 2½@2¾c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, $ doz.....$7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, $ doz. $4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.50
No E 55 plain polished, size 1, 2 or 3 without handles, $ doz. $4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, $ doz.....$8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, $ doz. $5.25
No. E 60, nickel-plated, size 4, with "best" handles, $ doz $9.50
No. E 60, nickel-plated, size 4, without handles, $ doz.....$6 80
No E 65, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.75
No E 65, plain polished, size 1, 2 or 3 without handles, $ doz. $4.75
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, $ doz.....$3.00
Self-heating.....$ doz $10.00, 20%
Self-heating, Tailors' $ doz $22.50, 25%
Sensible Nickel.....$ doz. $7.00
Sensible Pol. .....$ doz $6.50
Sensible, Tailors'.....$ lb 3@3½c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....60@ [illegible]
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....$ lb 16c
Cable Laid Russia.....$ lb 13½c@14c
Common.....$ lb 8½c@ 9c
Common Russia Sash.$ lb 12½c@13c
India Hemp Sash.....$ lb 9½c@10c
Jute, good quality.....$ lb 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....$ lb 30c
"Samson" Braided Drab, Cotton.....$ lb 35c
"Samson" Braided Italian Hemp.....$ lb 33c
"Samson" Braided Linen, $ lb 56c
Silver Lake:
A Quality, Drab..$ lb 55c. 3%@40%
A Quality, White, $ lb 50c. 35@40%
B Quality, Drab, $ lb 35c..... 15@15&7½%
B Quality, White $ lb 30c..... 15@15&7½%
White Cotton Braided, $ lb 21c@25c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...c0%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B. 50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....$ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....40&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Grimm's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....20%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...$ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..$ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets $ doz.....$6.00
Excelsior Saw Tools $ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....$ doz. $10.00
"Royal".....$ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $23.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, $ doz.....$4.75
Stillman's $ doz.....$1.00
Taintors Positive...$18.00 $ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, $ doz. $17.00@ $18.00
Tea, No. 161.....$ doz. $5 75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$3.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '83.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....$ doz., $2.00
Box, 2 Handle....$ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....$ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension.....50&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&35%
Fancy Pine.....15%
Painted.....50&5%
Stained.....50&10%
Standard Oil.....35&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....27½%
Champion.....40&10%
Disston's.....5@50&10
Pat. Excelsior.....5
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
1o5 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits...$ doz., 50@75c
Screw-Driver Bits, Parr's $ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 61, Varnished Handles.70&10%
No. 86.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty, $ doz.....$1.00 } 40%
Gem, $ doz.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....90%
Brass, Round Head.....85%
Bronze, Flat Head.....87½%
Bronze, Round Head.....85%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Drive Screws.....90%
Iron, Bright Flat Head.....9
Iron, Br't R'd & Oval Head.....85%
Iron, Forged Flat Head.....90%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

Brass, Flat Head.....45%
Brass, Round Head.....40%
Iron, Flat Head.....45%
Iron, Round Head.....40%

BENCH, HAND, ETC.—

Bench, Iron, $ doz., 1 in., $2.75; 1⅛, $3.00; 1¼, $3.50
Bench, Wood, Beech. $ doz $2.00@2.20
Chair.....60&10%
Coach.....82½%
Hand Rail Am. Screw Co.....82½%
Hand Rail, H. & B. Mfg. Co.....80%
Hand Rail, Sargent's.....70@70&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's.....75%
Jack Screws, Stearns'.....40&10%
Lag Blunt Point, list Jan. 1, 1890. 75&20@80&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....25%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise.....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, $ Set.....$2.25
Surrey, No. 9, $ Set.....$2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....40@40&5%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs. $ doz. $3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears.....30&10@40%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&2%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1882.50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....30&2%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@$3 40
Perkins Improved Snow.....$ lb 4c

MULE—

Add 50c $ keg to above prices.

OX, WROUGHT—

Ton lots.....$ lb 9c
1000 lb lots.....$ lb 9½c
500 lb lots.....$ lb 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&10%

Sifters, Flour—

Hunters' Genuine, $ gross, $10@11.50

Skate Sharpeners—

Eureka...$ doz. $1.75; $ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....20%
Tucker & Dorsey:
1 Knife.....$ gro. $15.00@$18.00
2 Knives.....$ gro. $20.0 @$27 00
Kraut Cutters.....50@50&10%
Woodrough & McParlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....65%
Cockeye.....70&10%
Covert Mfg. Co.....45&20&10%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
} 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....⅌ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓&
Wood.....⅌ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
22% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels. 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&1 &10%
Steel and Iron.. }

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—½, ⅝, and ¾ inch, ⅌ lb.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&3.@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....80%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....8 %
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....⅌ box $4.00
Bill Nye, Jr., Brad Box..⅌ box $2.00
Bonnie Blue.....⅌ box $1.50
Can Opener Carpet Tacks.⅌ gr $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks...⅌ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net.....$1
" " 2, " " ...1.50
Little Jack.....⅌ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....30@3 &5%
Keuffel & Esser Co 25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@6 %
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.:
IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).30&2%
Snips, J. Mallinson & Co.....33⅓&
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓&
Prentiss'.....30@35%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ⅌ doz.....$1.65
D. H. Fork, Steel Regular, each .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ⅌ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ⅌ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ⅌ doz.$1.75
Floor Hooks, ¾ in. ⅌ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ⅌ doz.....$3.00
Hanging Hooks for Double Steel Track, ⅌ doz..... .60
Hanging Hooks for Single Steel Track, ⅌ doz..... .30
Hanging Hooks for Wood Track, 10 in. ⅌ doz..... .45
Hanging Hooks for Wood Track, 14 in., ⅌ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ⅌ doz.$3.00
Malleable Rafter Brackets, ⅌ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ⅌ doz.....$3.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch ⅌ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ⅌ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ⅌ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ⅌ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent .....7 @7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3 3 and 304.....⅌ 100, $12.00
Shaw's:
Copper Finished.....8 &10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole..... 15%
Erie Rat.....40@40&10%
Housenold.....⅌ gr $10.00
Hotchkiss:
Metallic Mouse,.....⅌ doz. 65c
Improved Rat.....⅌ gross, $12.50
New Rat.....⅌ gross. $12.50
Mouse, Bonanza....⅌ doz 90c@$1.00
Mouse, Catch-'em-alive ⅌ doz $2.50,15%
Mouse, Delusion.....40%
Mouse, Ideal.....⅌ gr $9.00
Mouse, Round Wire. ⅌ doz $1.50, 10%
Mouse, Wood, Choker, ⅌ doz notes 10c@90c
Schuyler Rat Killer, No. 1 ⅌ gro., $13 5.; No. 2 ⅌ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ⅌ doz....$15.00
Yankee Mouse Trap, ⅌ doz.. $5.50
Yankee Rat Trap, ⅌ doz.....$11.00

FLY-

Balloon, ⅌ doz $1.25.....⅌ gr. $13.50
Electric Rod.....⅌ gr. $16.50
Globe.....⅌ doz., $1.25; ⅌ gr. $13.50
Harper....⅌ doz., $1.75; ⅌ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓&
Disston's:
Brick.....3 %
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & M. P. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@2 &10%
"Rose" Brick Plastering and Moulders.....3 @30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator 50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓&
Massey's Quick Action.....20&2%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....7 &10%
Simpson's Adjustable.....50%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓&
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ⅌ doz. $5.00
Axtell, Lacquered, 42 in. ⅌ doz. $7.00
Axtell, Pol. Brass, 36 in. ⅌ doz. $12.00
Axtell, Pol. Brass, 42 in. ⅌ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ⅌ gross. $3.50@$12.00
American Whip Co.:
List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27. 0; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft. $10.50; 6½ ft., $12.00; 7 ft., $13.5) 7½ ft., $15.00; 8 ft., 16.50.
Americus, 9s Pen Whip, 6 ft., $8.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 f., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $12.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 108, 6 ft.....$5.0
Hand-Made Stocked Java, No. 108.....5½ ft., $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....⅌ doz $2.0 @$7 50
True Grip, Raw Hide Center, 4½ ft. $6.00; 5 ft., $6.00; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.50; 7 ft. $9.00.

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....35&10%

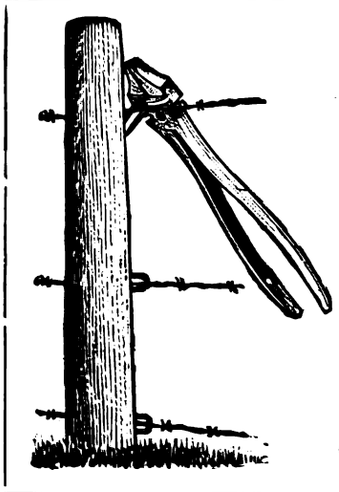
Window Stop Adjusters—

Taplin,s "Perfection".....10%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 85&10@85&10&10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@75&10&5%
Galv., Nos. 0 to 18.75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 13 to 20. Imported, ⅌ lb.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ⅌ lb.....4½c
Wire Clothes Lines, see Lines.

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CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....2½&2½&2½ cash
Iron.....20&2½&2½ cash
Iron, Galvanized..20&2½&2½ cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Acme:
Bright.....50@50&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....80@80&10%
Aiken's Pocket (Bright)..$3 00@3.30
Alligator.....60@60&10%
Always Ready.....33⅓&5@40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@30&10%
Standard.....70&10%
Lowell:
Lag Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....20%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894,
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....41c
Linseed, City, Boiled, in barrels ₩ gallon.....43c
Out of Town on Spot..₩ gal.....41c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard. Prime City.....₩ gal. 38@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$28.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ₤.....5c
White Lead, American, in Oil, ₩ ₤.....5½@6c
White Lead, Foreign, in Oil, ₩ ₤ 8@8½c
Litharge, Kegs, ₩ ₤.....5½c
Zinc, American, Dry, ₩ ₤....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....84½@——c
In machine bbls.....35@——c

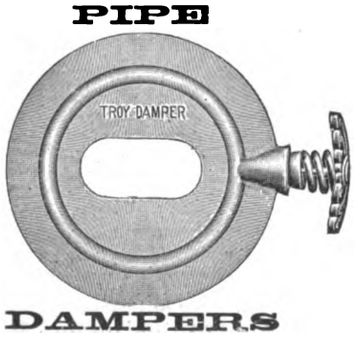
Dry Colors—

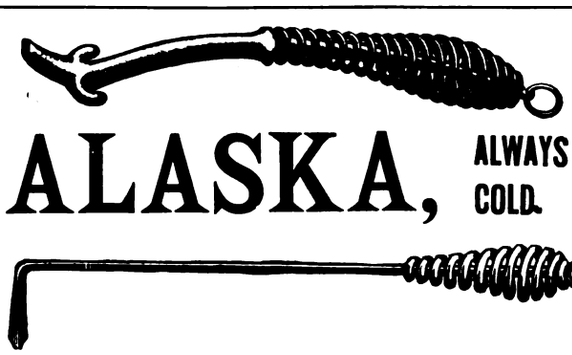
Blue, Chinese.....₩ ₤ 37 @40
Blue, Prussian.....₩ ₤ 30 @35
Blue, Ultramarine..₩ ₤ 8 @25
Sienna, Italian, burnt & powd red ₩ ₤ 3½@5 c
Sienna, Italian, raw & powdered...₩ ₤ 3 @4½c
Umber, Turkey, burnt.....₩ ₤ 2½@3½c
Umber, Turkey, raw.....₩ ₤ 2½@3 c
Green, Chrome, Common.....₩ ₤ 5 @12 c
Green, Paris, in bulk, ₩ ₤ 11½@12½c
Indian Red, American.....₩ ₤ 3 @ 8 c
Indian Red, English.....₩ ₤ 4½@8

Colors in Oil—

Black Coach Japan ₩ ₤..18½@20
Black Coach Japan, in Oil.....₩ ₤ 12 @18 c
Black Drop.....₩ ₤ 7 @10 c
Black Lampblack...₩ ₤ 20 @33 c
Black Lampblack, common.....₩ ₤ 7@15 c
Blue, Chinese.....₩ ₤ 35 @40 c
Blue, Prussian.....₩ ₤ 20 @40 c
Blue, Ultramarine..₩ ₤ 12 @18 c
Brown, Sienna, burt'₩ ₤ 8 @12 c
Brown, Sienna, raw.₩ ₤ 8 @12 c
Umber, burnt.....₩ ₤ 7 @10 c
Umber raw.....₩ ₤ 7 @10 c
Brown, Vandyke....₩ ₤ 7 @12 c

PIPE DAMPERS





ALASKA, ALWAYS COLD.

STOVE LID LIFTERS, POKERS, SHOVELS, FIRE SETS.

Patentees and Sole Manufacturers,

TROY NICKEL WORKS
ALBANY, N. Y.

"READ IT FROM THE FIRST ISSUE."

C. E. Neale, Worcester, Mass.: Please find enclosed the cash for the coming year's subscription to HARDWARE. I have read it from the first issue, and intend to keep right along reading it, and wish you success.

"WELL PLEASED WITH 'HARDWARE.'"

W. W. Johnston, Bartlett, Ohio: Enclosed find $1 to pay my subscription to your journal. I am well pleased with the paper, and think it would pay all dealers in Hardware to take it.

"'HARDWARE' IS READ BY THE DEALERS."

Forehand Arms Co., Worcester, Mass. [*Arms*]: In the numerous inquiries received daily, reference is made to HARDWARE as often as to any other publication, which shows that HARDWARE is read by the dealers.

"CANNOT FAIL TO HELP OUR BUSINESS."

J. C. Tanger & Co., Hanover, Pa.: Please find $1 enlosed for one year's subscription. After examining a specimen copy, we think it one of the best, and that it cannot fail to help us in our business.

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A WARNING.

THIS OFFER HOLDS UNTIL FEBRUARY 1st, 1898,

For all **NEW 1898 SUBSCRIBERS** to "HARDWARE," but it will not take until then for you to discover some remarkable offers in the subjoined premium list.

ALL THE NEWS. **HARDWARE** HARDWARE EXCLUSIVELY.

Needs no introduction to the Hardwareman. He already knows what a valuable adjunct to his business this bi-monthly visitor is, with its reliable "Prices Current," its "Market Reviews" and its general news of interest to the Hardware trade.

FOR $1.00 we will send "HARDWARE" for one year, and the **"WORLD'S ALMANAC"**—an encyclopedia of useful information, boiled down to about 600 pages. It gives statistics of almost every subject likely to be of interest to the busy man. All the news and statistics of the world put into shape for handy reference. Will answer any question you may ask it.

FOR $1.00 We will send **"HARDWARE"** for one year, and **ANY ONE** of the following articles:



A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

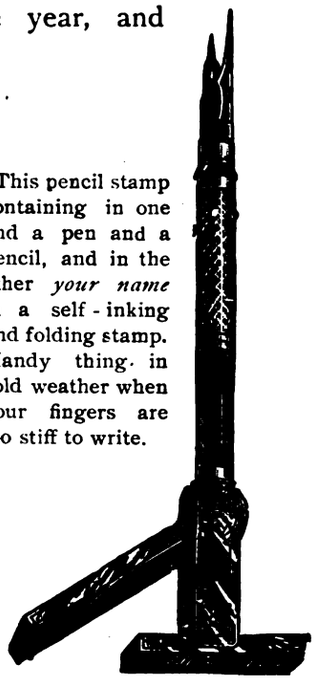


A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.



This elegant self-inking stamp, with *one line* of print *to order*. Your name, your business, your address, or whatever you wish.

This pencil stamp containing in one end a pen and a pencil, and in the other *your name* in a self-inking and folding stamp. Handy thing in cold weather when your fingers are too stiff to write.



Address all communications to——

HARDWARE PUBLISHING CO.,

No. 143 CHAMBERS STREET, - - - NEW YORK.

FOR ORDER BLANK SEE LAST PAGE.

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IF YOU'RE NOT MARRIED

to old-fashioned methods, you need **"HARDWARE"** in your business. If you are, you need it all the more. **"HARDWARE"** for a year, and any one of the attractive premiums shown on this page, sent prepaid for $1.25, to our . . . .

NEW 1898 SUBSCRIBERS ONLY.

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. . . . . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. The Latest Fad in Jewelry. . . Everybody wears one now for luck. A real four-leaf clover mounted between glass in sterling silver or heavy plate—silver is fashionable—for bangle, watch charm or scarf pin.

4. A Cut of Your Premises, ... 2x1½ inches, for illustrating your advertisements, or printing your envelopes. Send us a photo—we'll do the rest. . . . . .

5. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters. If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

6. They Speak for Themselves. . . That is something good signs always do. We send you 100 red, white or black embossed cardboard letters, 2-inch, ready gummed, with which you can make most attractive indoor signs. These letters will adhere to anything. When ordering, specify the quantity of each letter, figure, $-signs and cts. signs you require. Extra hundreds sent for $1.00 per 100. . . . . .

7. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint. This practical Price Book is in almost universal use. . .

HARDWARE PUBLISHING COMPANY,

No. 143 CHAMBERS STREET,

NEW YORK CITY.

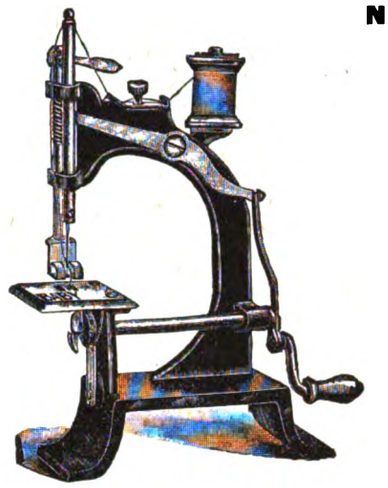
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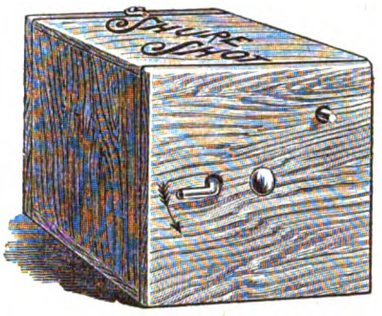
HERE'S OUR HOLIDAY OFFER:

Hardware for a year and any one of the following attractive premiums for $1.50. This offer applies to

NEW 1898 SUBSCRIBERS ONLY.



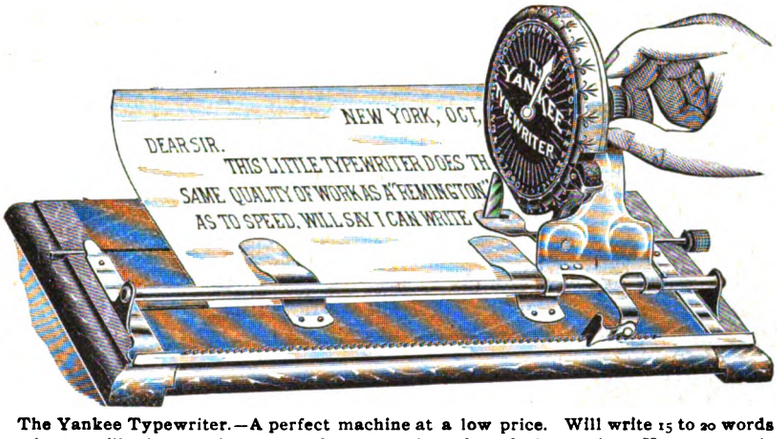
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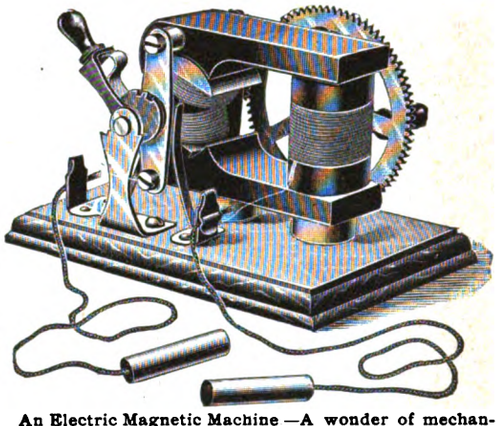
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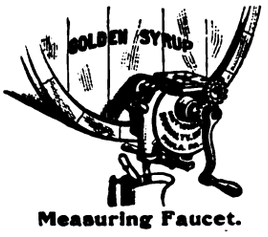
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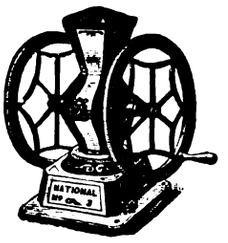

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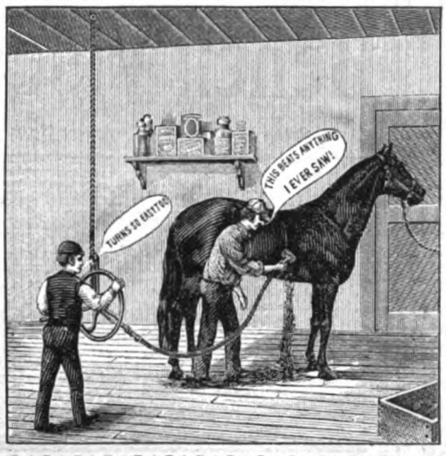
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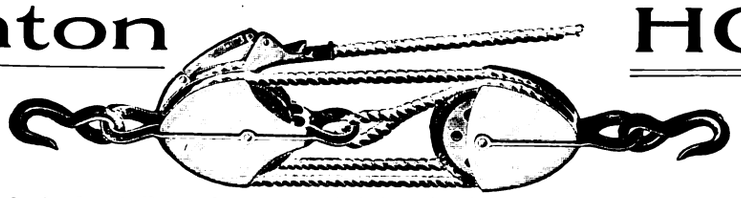
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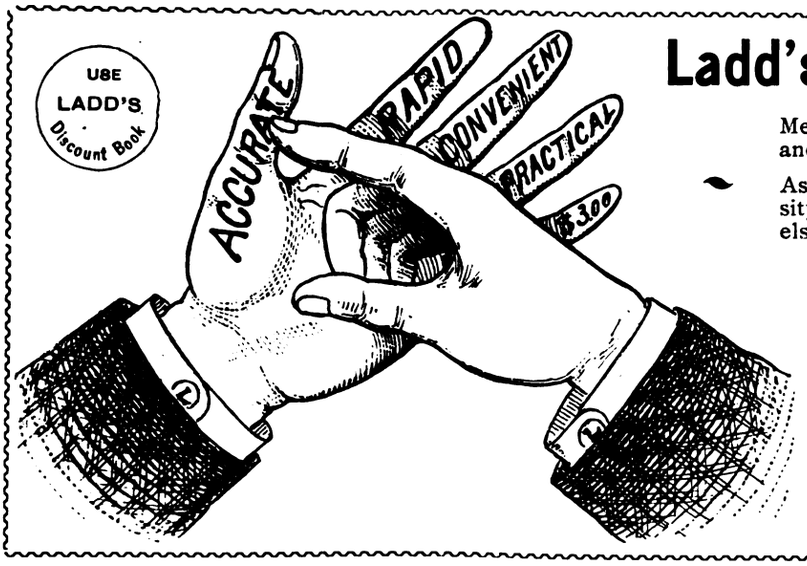
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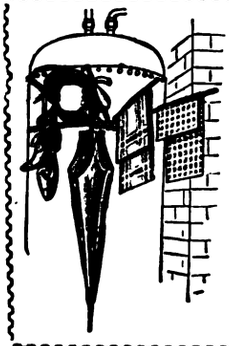
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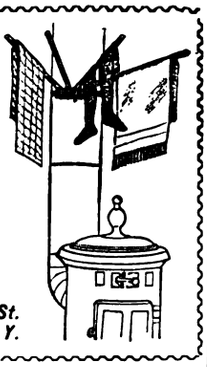
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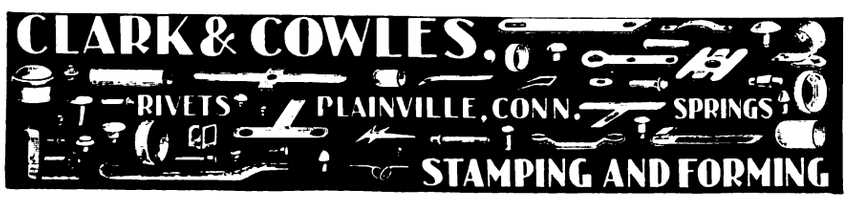
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W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.
W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Peru Electric Mfg. Co., Peru, Ind.

Elevators.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.

Elevator Screens and Guards.
Harrington & King Perforating Co., Chicago.

Emery.
Crescent Emery Mills Co., Oscawana, N. Y.
Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.
Crescent Emery Mills Co., Oscawana, N. Y.
New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.
J. L. Prescott Co., New York.

Enameling Ovens.
Union Heater Supply Co., Detroit, Mich.

Enamel Ware.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Envelope and Stamp Lubricators
Pelouze Scale & Mfg. Co., Chicago.

Expansion Bolts.
Isaac Church, Toledo, O.

Export Agents.
John H. Graham & Co. New York

Exposition.
Sportsmen's Exposition & Bicycle Show, New York.

Eyelets.
Waterbury Brass Co., New York.

Faucets.
Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Fibre Ware.
Standard Fiber-Ware Co., Mankato, Minn.

Files.
Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.

Filteration Quartz.
New England Filteration Co., Boston.

Filters.
J. H. Seed, New York.

Fire Escapes.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Flat Ware.
See Plated Ware.

Flower Pot Stands.
E. T. Barnum, Detroit, Mich.

Fluting Machines.
North Bros. Mfg. Co., Philadelphia.

Fodder Cutters.
Silver Mfg. Co., Salem, O.

Foundry Riddles.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.
Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.
Stewart Iron Works, Cin'nati, O.

Fruit Pickers.
Edward Darby & Sons, Philadelphia.

Fruit Presses.
Enterprise Mfg. Co., Philadelphia.
Logan & Strobridge Iron Co., New Brighton, Pa.

Furnaces.
Hess, Synder & Co., Massillon, O.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.
New Jersey Car Spring & Rubber Co, Jersey City, N. J.

Garden Tools.
Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.
H. O. Canfield, Bridgeport, Conn.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.
Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.
Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.
Stanley Rule & Level Co., New Britain, Conn.

Gears.
T. F. Welch & Co., Boston.

Generators.
W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.
H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.
Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.
Jos. Dixon Crucible Co., Jersey City, N. J.

Grating, Iron.
Stewart Iron Works, Cin'nati, O.

Grinding Mills.
A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.
Cleveland Stone Co., Cleveland.

Gummers.
E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.
E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.

Gun Implements.
Bridgeport Gun Implement Co., New York.
Bartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Hammers.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
The Scranton & Co, New Haven, Conn.
Troy Nickel Works, Albany, N.Y.

Hammocks.
I. E. Palmer, Middletown, Conn.

Handles.
Berger Bros., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio
Russell & Erwin Mfg. Co., New York.

Hangers.
Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.
Cronk Hanger Co., Elmira, N Y

Hangers, Door.
Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N.Y.
McCabe Mfg. Co., New York.
McKinney Mfg. Co, Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.
Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.
Arcade Mfg. Co., Freeport, Ill.
Berger Bros., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles, Plainville, Conn.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
"Foreign," New York.
Griswold Mfg Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Geo. P. Marks & Co., New Orleans, La.
James F. Martin, Frankford, Philadelphia
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
North Bros. Mfg. Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Gray, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
T. F. Welch & Co., Boston.

Harness Snaps.
Covert Mfg. Co., West Troy, N. Y.

Hasps.
McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.
F. E. Myers & Bro., Ashland, O.

Hay Forks.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.
E. T. Barnum, Detroit, Mich.

Heaters
C. R. Meres Heater Mfg. Co. Norwalk, O.
Edward Miller & Co., Meriden, Conn.

Hinges.
Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hoisting Machinery.
Energy Mfg. Co., Philadelphia.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.

Hones, Razor.
Alfred Field & Co., New York.
Pike Mfg. Co., Pike Station, N. H.

Hooks.
W. C. Heller & Co., Montclair, N. J.

Horse Nails.
Ausable Horse Nail Co, New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.
F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.
Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus
Bramhall Deane Co, New York.

Ice Tools.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.
Parker Ice Tool Co., Worcester Mass.

Ice Cream Freezers.
John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.
Mutual Life Insurance Co., New York.

Iron.
Bruce & Cook, New York.

Iron Castings.
C. H. Angus, Albany, N. Y.

Iron, Perforated.
Harrington & King Perforating Co., Chicago.

Jail Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.
C. H. Angus, Albany, N. Y.

Kitchen Sinks.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.
National Saw Co., Newark, N. J.

Lace Leather.
John C. Hagan & Co., Manchester, Va.

Ladders.
Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.
Plume & Atwood Mfg. Co., New York.

Lanterns.
Buhl Stamping Co., Detroit, Mich.

Lathes.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.
George Hayes, New York.

Lawn Fountains.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.
Clipper Lawn Mower Co, Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Supplee Hardware Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.
E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Lead.
Bruce & Cook, New York.

Lead Pencils.
Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.
Berger Bro., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.
Tower & Lyon, New York.

Lifters Automatic.
Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.
Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

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Machinery.
A. Adamson, Akron, Ohio.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Vieillard & Osswald, Brooklyn, N. Y.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.
C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.
Magnolia Metal Co., New York.

Mail Boxes
W. C. Heller & Co., Montclair, N. J.

Mallets.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.
Fulton Stamp Works, New York.

Masons' Lines.
Samson Cordage Works, Boston.

Meat Choppers.
John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.
New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.
C. H. Angus, Albany, N. Y.

Metals, Perforated.
Harrington & King Perforating Co., Chicago.

Metallic Paint.
Bruce & Cook, New York.

Metal Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Milk Cans.
Buhl Stamping Co., Detroit, Mich.

Mincing Knives.
Enterprise Mfg. Co., Philadelphia.

Mining Screens.
Harrington & King Perforating Co., Chicago.

Mirrors, Window.
Bayer & Co., Philadelphia.

Model Making.
Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mops.
Matchless Mop Wringer Co., Canton, Ohio.

Mop Wringers.
Matchless Mop Wringer Co., Canton, Ohio.

Mosquito Netting.
L. E. Palmer, Middletown, Conn.

Motors.
W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.
A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.
The Scranton & Co., New Haven, Conn.

Nail Sets.
John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.
Alfred Field & Co., New York.

Nippers.
Alfred Field & Co., New York.
Charles Morrill, New York.

Nuts.
Union Nut & Bolt Co., New York.

Office Railings
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.
Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.
Edward Miller & Co., Meriden, Conn.

Ornamental Iron Work.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.
Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.
Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.
Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.
Standard Fibre Ware Co., Mankato, Minn.

Paints.
Canton Steel Roofing Co., Canton, Ohio.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.
Harrington & King Perforating Co., Chicago.

Photo-Engraving.
Otto Neuburg, New York.

Pipe Cutters.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.
Holroyd & Co., Waterford, N. Y.

Pipe Straps.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.
Holroyd & Co., Waterford, N. Y.

Planes.
C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.
Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.
C. H. Angus, Albany, N. Y.

Pleasure Wheels.
Strobel Mfg. Co., Marion, Ohio.

Pliers.
Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.
Tower & Lyon, New York.

Polish.
John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.
Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.
E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.
The Scranton & Co., New Haven, Conn.

Power Presses.
Vieillard & Osswald, Brooklyn, N. Y.

Presses, Dies, &c.
Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.
Stewart Iron Works, Cin'nati, O.

Pulleys.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Railroad Brasses.
Magnolia Metal Co., New York.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.
See Traps.

Refrigerators.
Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia.

Reels.
Hartzell Novelty Works, Alliance, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
C. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
Irving Elting & Co., Saugerties, N. Y.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
James F. Martin, Frankford, Philadelphia
Underhill, Clinch & Co., New York.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screws.
Franklin S. Miles, Philadelphia.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York,
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.

Shears and Scissors.
Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

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Sheet Brass.
Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
Barney & Berry, New York, Boston, Philadelphia, Springfield.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Skylights.
George Hayes, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York.

Spark Guards.
Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co, Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Canton Steel Roofing Co., Canton, Ohio.
Finished Steel Co., Youngstown, O.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

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Harrington & King Perforating Co., Chicago.

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Schwerdtle & Siebert, Bridgeport, Conn.

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Bicycle Step Ladder Co., Chicago.

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Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E Myers & Bro., Ashland, Ohio.

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Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
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Monarch Stove Co., Mansfield, O.

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Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

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Troy Nickel Works, Troy, N. Y.
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See Trucks, Stove.

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Pike Mfg. Co., Pike Station, N. H.

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Alfred Field & Co., New York.

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Stewart Iron Works, Cin'nati, O.

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Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
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Union Heater Supply Co, Detroit, Mich.

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Alfred Field & Co., New York.
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Bruce & Cook, New York.

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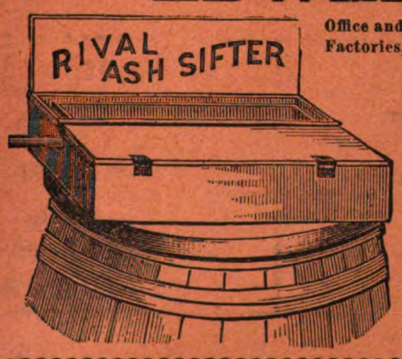
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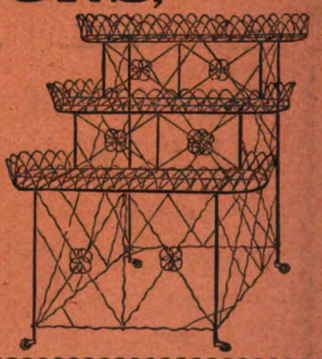
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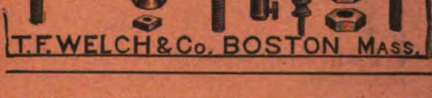


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Their goods sell

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..THEY LAST FOR YEARS..

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SASH LOCK

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Greatest Lock in Existence.



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WINDOW STOP ADJUSTER.



ORNAMENTAL Gives a FINE FINISH.

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Sheet Metal Workers. Hardware Specialties.

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Peerless Faucet.

NONE BETTER.

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Tensile strength one-half greater than that of any other nail made.

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"PRACTICALLY UNBREAKABLE"

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HARDWARE EXCLUSIVELY.

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VOL. XVI. No. 7. New York, January 10, 1898. $1.00 A YEAR.



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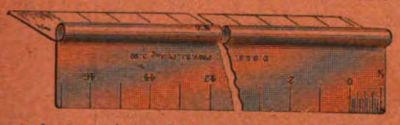
are a Security Device; at once Simple and Durable; Adjusting the Sash, Preventing Rattling; also Disfigurement of Top Sash by Keeping the Window "Locked or Unlocked."

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Specialties from Auction in
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For THE SCRANTON
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Write J. C. McCARTY & CO.,
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Chests shipped from New Haven, Conn., or New York.

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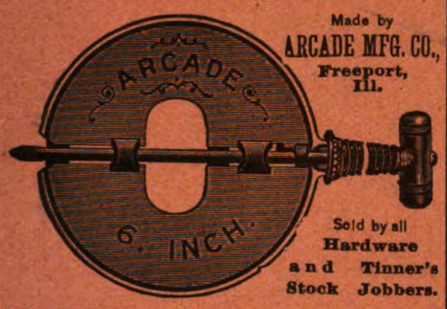
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Plain and Galvanized Wire.

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Wire Straightened and Cut to length.



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Sold by all Hardware and Tinner's Stock Jobbers.



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IT DRAWS THE CORK

—twists it out with ease. Saves all the customary pulling and bothering.

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with wire cutter.

Is best of all. . . . .
Invaluable to everyone.

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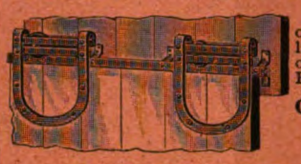
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In great variety and of best quality.
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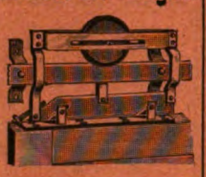
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LANE'S Patent Noiseless Steel Parlor Door Hangers.

Three different Styles and Prices.
All Steel Anti-Friction.
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All run on Same Rail.
Each set Packed with Screws.



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Large variety, adapted to every class of work.

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The finest in the world.

We are the largest manufacturers of Buffs in the United States. . .

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PATENT
BALL BEARING
DOOR HANGERS



Simplest, Cheapest, Best.

Adjustments above and below the track without removing the door.

Once used will use no other.

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THE ORIGINATORS OF

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IMITATING THE

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Genuine Ausable Nails are packed in boxes bearing their FULL NAME and Trade Mark.

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WITH THIS SCREW LADIES CAN DRAW TIGHT CORKS EASILY.

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HAND POWER CORK SCREW,

Pulls the Cork out of the Bottle.

DIRECTIONS FOR USE:

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No. 7042, Bronze Cup, Maple Handle $3.00 per doz.
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Manufacturers of Wire Specialties for the Trade.

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Best Crucible File Steel; Hard, Thorough Temper;
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Du Pont's Crystal Grain.
Unequaled in strength and cleanliness.

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Unsurpassed for penetration and pattern, burning slowly, strong and very clean.

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Specially adapted for Prairie and Upland Shooting; burns slowly, strong and moist; gives good penetration with a close pattern.

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For general shooting, either in muzzle or breech loaders.

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Du Pont's Smokeless Powder.
Regular pattern and high velocity, with low pressure. Try it. Load same as Black Powder. Directions on every wrapper.

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The Best Gate, Latch and Hinge EVER MADE.

The Years Have Proved Their Value

Their One Fault :
They Won't Wear Out!

Simple, Durable and Cheap. Arranged to work without any spring, on its own Automatic principles. Send for descriptive circular and prices.

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3000 SHEET ROLLS. SATIN FINISH FINEST QUALITY. RETAILS FOR $1.00 PER CASE.

A.P.W. PAPER CO. ALBANY, N.Y.

"The Family Steam Laundry."



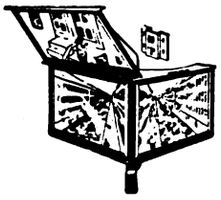
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For family use. Washer, Boiler, Adjustable Stove, Attachment for Wringer, etc. ALL IN ONE. It will Wash, Boil, Steam, Rinse, Blue, Heat Irons, make Starch and Cook your Dinner all on the one machine, in the most Perfect manner, and Quickest Time and Least Labor, without any Wear or Tear, without Lifting Wringer, Slopping the Floor or Breaking your Back over a Washboard and Tub. Get one and be Free Forever from Washtubs, Washboards, Washboilers, Laundry Stove, Rubbing your Clothes, Sore Knuckles and Scalded Hands. Strong, Durable, Handsome and Easily Operated. Heated by natural gas, artificial gas, gasoline or oil.

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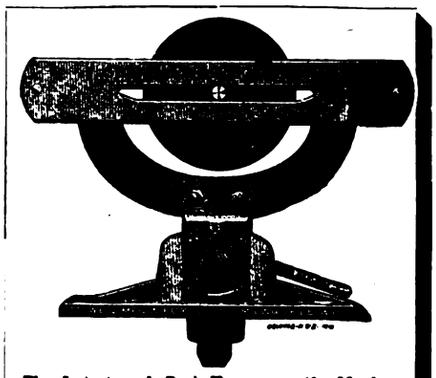
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Enables a person to see up and down the street, eight to ten blocks, and who's on the door step. Can be attached to any house. . . .

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BAYER & CO., *28 North 13th St., PHILADELPHIA, PA.*



The Latest and Best Hanger on the Market.

Write for Prices.

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SUCCESSORS TO

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Akron Tubular Steel Wheelbarrows.

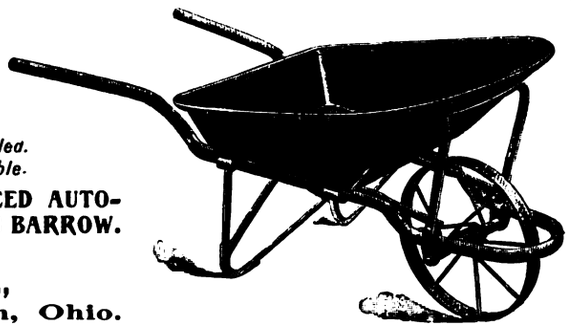
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NO HOLES DRILLED INTO IT.
ALL PARTS CLAMPED ON.

Perfect Forward Dump.
Strongest, Easiest Handled.
Lightest and Most Durable.

McNEIL'S PATENT BALANCED AUTOMATIC DUMP CHARGING BARROW.



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Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS

OF ALL KINDS.

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TAPE MEASURES,

EYELETS AND SMALL BRASS WARES

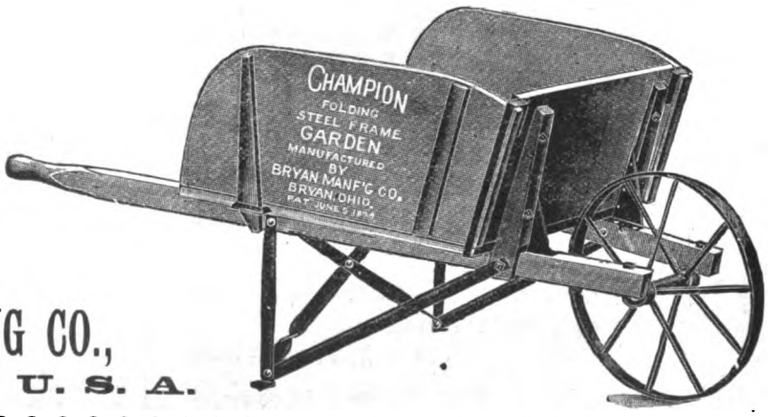
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We Guarantee the quality of our Files to be equal to that of our Saws. . . . . .

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THE "DIAMOND" 'W. & B." UNIVERSAL SELF-OILING DRILLS.

STYLE "A." STYLE "B."



Furnished with either Straight or Taper Shanks, any length desired. Three Styles.

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And other graphite products of

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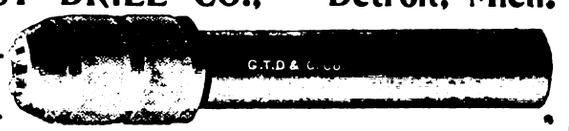
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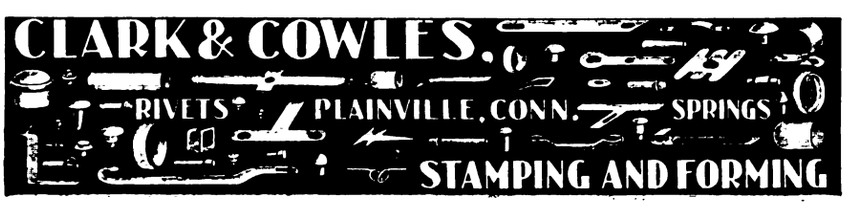
DETROIT TWIST DRILL CO., Detroit, Mich.

Sole Manufacturers of

Graham Grooved Shank System of Chucks and Drills.

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HIT THE PIPE



as hard as you like with chisel or mallet and observe that the surface finished with simply one coat of our

ELASTIC IRON ENAMEL

is scarcely marred. It also withstands a high degree of heat; in truth it is as nearly indestructible as it is possible to make a varnish. For smoke-stacks, fire-place casings and stove-pipes

ELASTIC IRON ENAMEL has no equal.

The accompanying cut represents a miniature stove-pipe finished with one coat of

ELASTIC IRON ENAMEL.

We send these display pipes with dealer's orders for this specialty. Pints, half pints and quarts are its most salable packages.

Chas. H. Gillespie & Sons,

VARNISH MAKERS,

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OUR WANTS ARE ENDLESS!



We want reliable agents all over the United States to sell the . . .

ELTING PATENT SASH LOCK.

Burglar-proof, Ventilating, Anti-rattling.

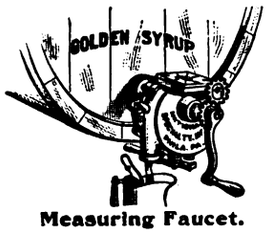
Positively the best selling and most perfect sash lock ever offered to the Hardware trade. It is to your interest to write at once. Sample, prepaid, 30 cts. Descriptive price lists free. . . .

IRVING ELTING & CO. Saugerties, N. Y.

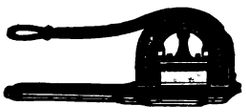
"Replies From All Sections."

McIntosh-Huntington Co, Cleveland, Ohio. [*General Hardware and Bicycles*]: As an advertising medium, we have recently had occasion to test HARDWARE in a manner that would give us some idea as to how successful it can be used. Our advertisement did not occupy a very prominent position, but was of a character to excite the cupidity of the reader. We found that within two days after your paper came out, we commenced to receive replies from all sections of the country to the advertisement. This would seem to be sufficient proof that yours is a good medium.

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Measuring Faucet.


Tobacco Cutter.

We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

NATIONAL SPECIALTY MFG. CO.

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No. 3 Mill.


No. 1 Mill.

THE BRIDGEPORT CHAIN COMPANY, Bridgeport, Conn.

—MAKERS.—

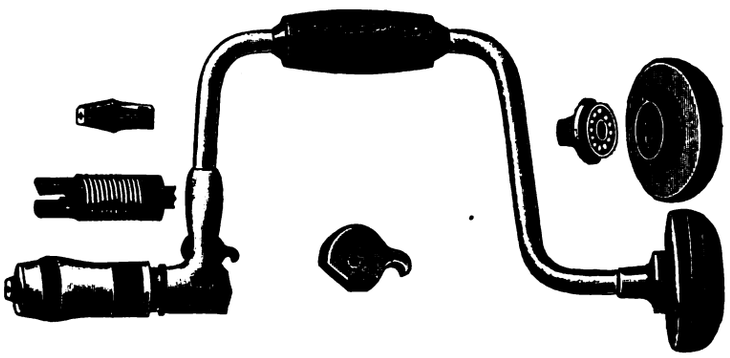
The New Wire Chain.


"PERFECTION."

A new Chain as a substitute for the German Welded Chain. Is Strong and Sightly.

6 Sizes, viz.: - - 3/0, 2/0, 0, 1, 2 and 3.

THE IMPROVED PATENT RATCHET BRACE, BEST THING ON THE MARKET.



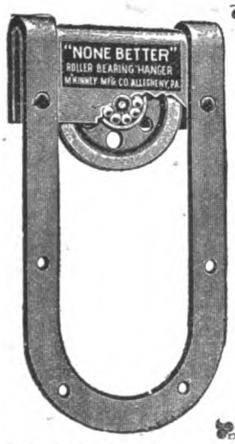
NOTE THESE IMPORTANT POINTS OF SUPERIORITY:

Simplicity of mechanism. Lever blade used for ratcheting. Ratchets either right or left, and to work stationary. Does perfect work with any size of bit. Twelve balls in head run on steel cups, as strong and easy running as those in bicycles. . . . . .

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FOURTH ANNUAL

Sportsmen's Exposition and Bicycle Show,

UNDER THE AUSPICES OF THE National Sportsmen's Association.

Madison Square Garden, New York,

JANUARY 13 to 22, 1898.

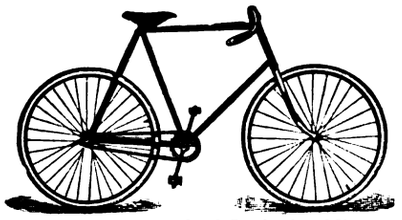
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FRANK W. SANGER, Manager Madison Square Garden Co., New York.

SPECIAL NOTICE.—For $2.00 any gentleman may become a member of the NATIONAL SPORTSMEN'S ASSOCIATION, membership entitling him to free admission to the Sportsmen's Exposition, reduced rates at Association hotels, one year's subscription to the Official Bulletin, and other privileges, which can be learned of by addressing the Sportsmen's Association, P. O. Box 2325, N. Y. City, for application blank and prospectus.



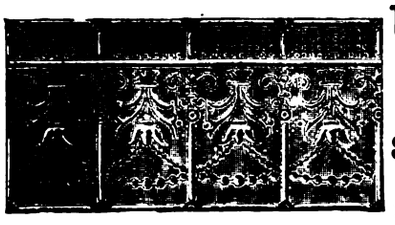
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A handsome, WELL MADE bicycle, '97 model, 1⅛ and 1¼ inch tubing, drop forged connections, tool steel bearings, good tires, standard Garford saddle, rat-trap or rubber pedals. Every machine GUARANTEED PERFECT. Just the thing to catch the late fall trade. Samples shipped C. O. D., subject to full examination, on receipt of guarantee of express one way. TIME IS MONEY. THEY ARE GOING FAST. Don't wait for lists. Order a sample at once. You can't lose anything. Special prices on machines without tires, saddles and pedals.

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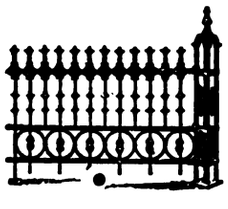
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Manuf'rs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





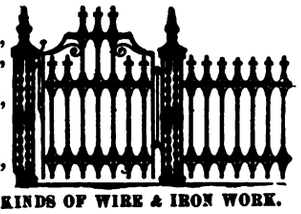
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WASH BASINS, SLOP JAR MATS.

In these lines by stocking up with **plain** and **decorated** **"STANDARD" WATER PAILS, DAIRY PAILS, CHAMBER PAILS, CUSPIDORES, &c.,** for Office, Lobby, Hotel, Hall and Home.

Made of **strong fiber, wound,** and **steel bound,** they do not split open, nor chip off at edges, neither do their truss bottoms warp, loosen or leak.

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"Standard" is the only Fiber-Ware having **hand-painted decorations,** which, with its other merits, makes it outsell all similar ware.

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By all odds the BEST cheap Digger on the market. It is a great improvement over the ordinary Split-handle Diggers, as our Handles are stronger and easier to open; and the strain comes against the thick way of the Handles, which any mechanic can see is the proper way to resist the strain. Split handle Diggers made with the handles not folding, but opening out straight from each other, are a dismal failure, as the strain comes against the broad thin part of the handles, causing them to spring, warp or break. BEAR THIS IN MIND when purchasing Post Hole diggers, and thus save annoyance to both yourself and customers. . . . . .

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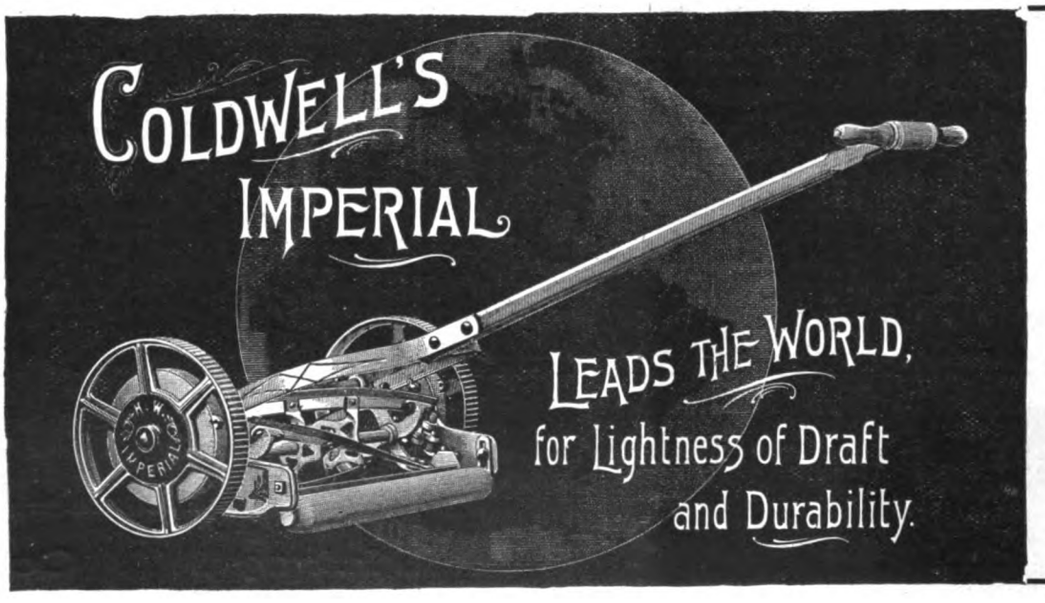
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Manufacturers of

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Price Lists sent on application.



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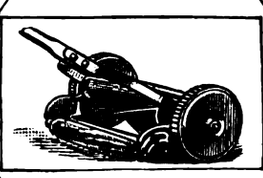
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6½, 7, 8, 9¼, 10 INCH WHEELS.

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INCLUDING OUR STYLE A ALL STEEL MOWER.

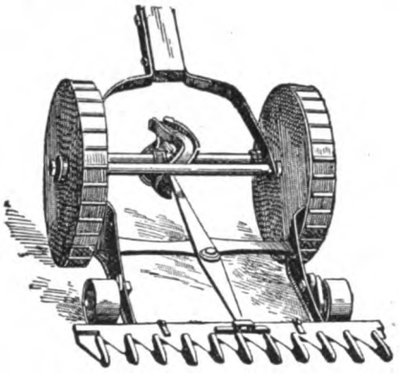
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That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**

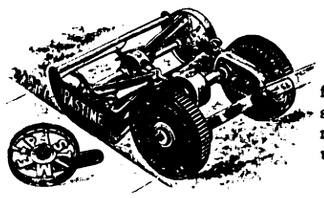


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Derby Snap,
With Plated, Rust Proof and Guarded Spring. . . .
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PASTIME LAWN MOWER and TRIMMER.



IMPROVED 1898 MODEL.

This front cut mower trims to within ½-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

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STEEL SNOW SHOVELS

MANUFACTURED BY

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A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

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BUY ONLY THE BEST
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MAKE NO MISTAKE.
40 years' reputation is guarantee enough as to the high standard of the
BEST SAWS MADE.

Hand, Back, Butcher, Cross Cut, Wood, Circular, Mill and Band Saws, Celebrated W. & McP., Cincinnati, Plastering Trowels.

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"DUPLEX" WROUGHT BUTTS

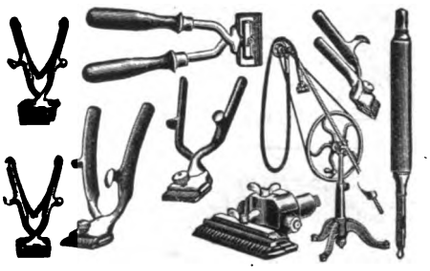
Wrought Steel
Wrought Bronze
All Sizes and
All Finishes.

These Butts are better than the ordinary kinds. Made only by

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New York, Phila., Chicago.
Factories, READING, PA.

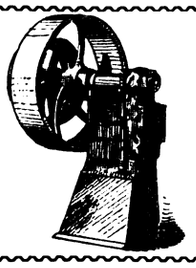
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Everything in that line.
Our motto: "Keep a-goin'."
Especial attention invited to
Sprague's Patent Giant Frame Wagon Umbrella.
It is the Strongest Umbrella on the globe.
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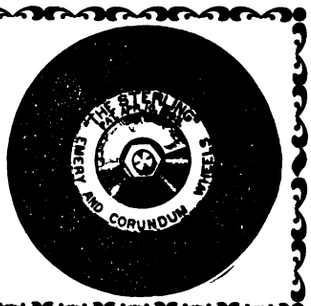
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MAKERS OF
Hair Clippers
ALL KINDS UNDER THE
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Power Clippers, both hand & mechanical.
Anti-Friction Horse Clippers.
Barbers Adjustable,
The best made.
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SPECIAL MACHINERY
WIRE drawing, CLAY working,
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CUTTING and WELDING machines,
POWER TRANSMISSION, Pulleys, Shafting, Gearing Boxes, Collars, etc., etc.
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If so, you need the latest up-to-date
AUTOMATIC MACHINERY.
We have filled the wants of others in this line, why not yours?
THE AUTOMATIC MACHINE CO., Railroad Ave., and Garden St., BRIDGEPORT, CONN.

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A GOOD THING.

IT'S IN THE TEETH.

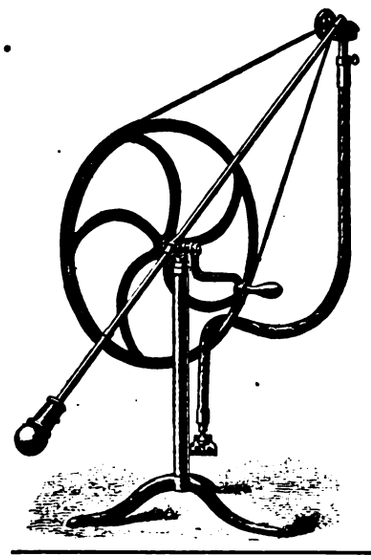
The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6¼x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.



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. . CATALOGUE SENT FREE TO ALL . .

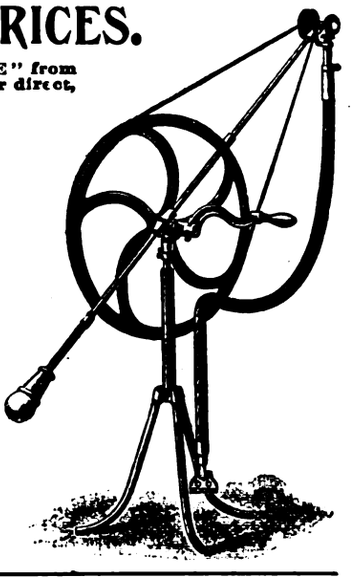
SHOWING OUR DIFFERENT STYLES OF

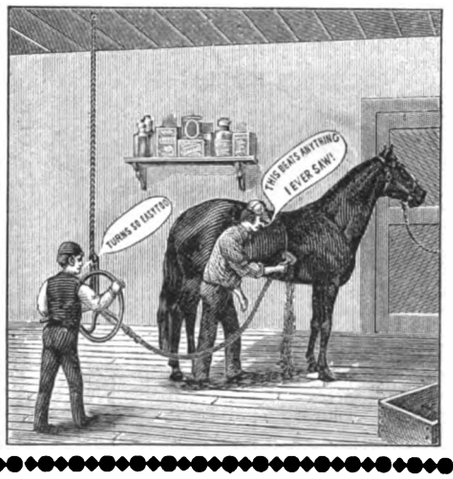
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HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,

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THE NEW '98 CHICAGO CLIPPER.

THE MARVEL OF THE YEAR. RETAIL PRICE, $12.75.

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TOILET CLIPPERS.

An entirely new line of High Grade Clippers from New Patterns by new machinery, in our new factory. Handsome Design, Beautiful Finish, Best Material and Workmanship. **Each part absolutely interchangeable.** Every Jobber should get samples and prices at once.

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PATENTS PENDING IN ALL COUNTRIES.

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Dealers in the United States & Canada sell Houchin's Specialties.

If you do not, send for illustrated Price List.

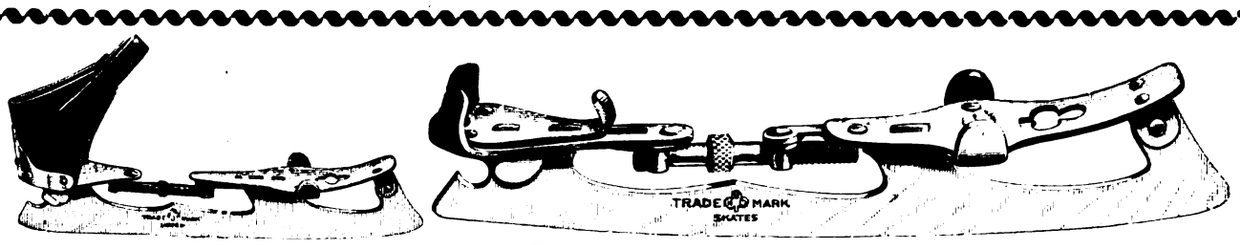
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POPULAR SPECIALTIES

Consist of Wax Tapers and Torches for Lighting Gas, Alcohol Stoves, 20 Styles, Gas Heaters and curling Iron Heaters, & Insect Powder Guns and Bellows, &c

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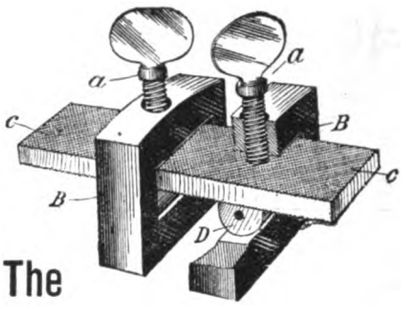


UNION CLUB SKATE.

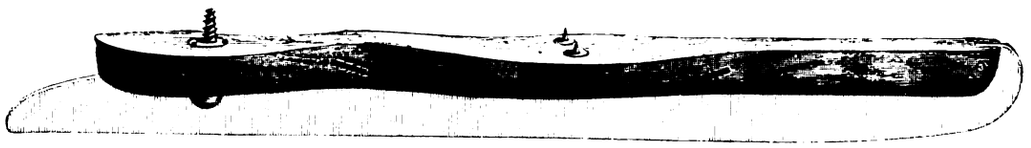




HOCKEY SKATES.



The Union Skate Sharpener.



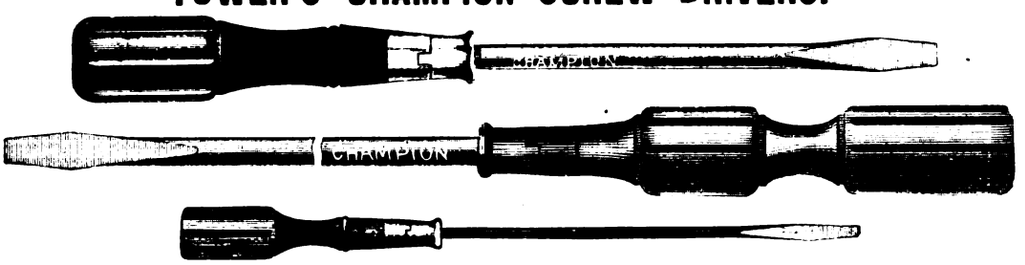
DONOGHUE RACING SKATE.

MANUFACTURED BY **UNION HARDWARE CO.,**

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

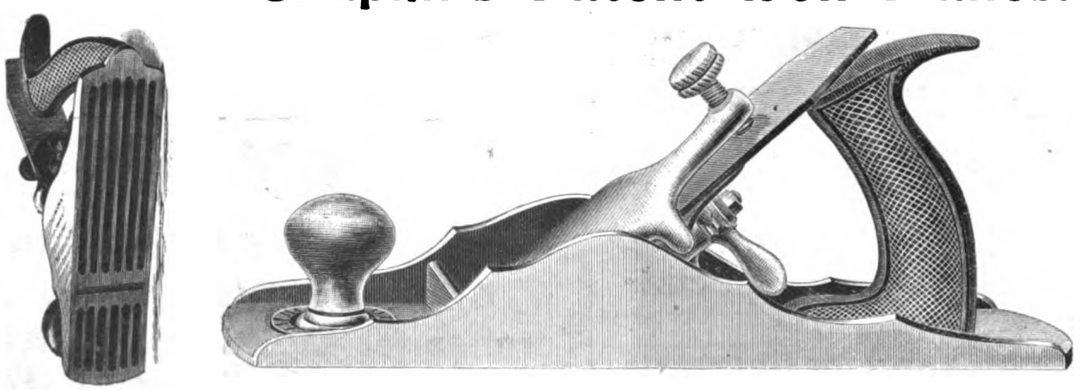
CARPENTERS and MACHINISTS' TOOLS.

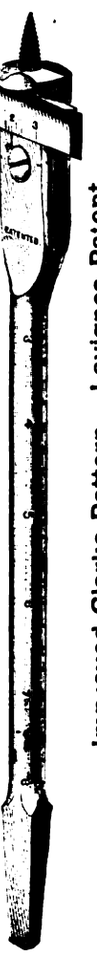
TOWER'S CHAMPION SCREW DRIVERS.



See that the word "CHAMPION" is on each Screw Driver.

Chaplin's Patent Iron Planes.





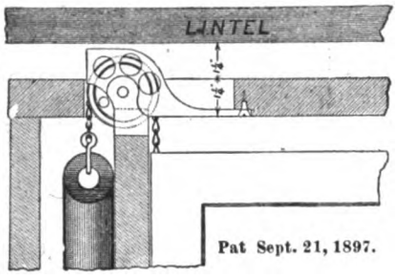
Improved Clarks Pattern. Lavignes Patent.

TOWER & LYON,

95 Chambers St., New York City.

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QUEEN SINGLE FRAME PULLEYS.



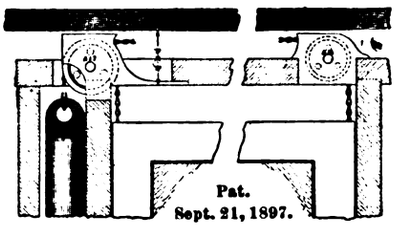
Send for Catalogue and Price List of

QUEEN PULLEYS.

No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

Architects will note accompanying cuts. They represent 2½-inch pulleys and only require 2½ inches head room from top of sash.

QUEEN MULLION FRAME PULLEYS.



ONE WEIGHT BALANCES THE SASH.

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BAND,
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SAWS.

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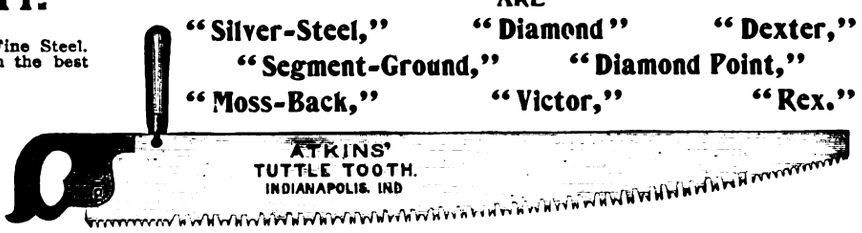
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WE ARE THE LARGEST PRODUCERS OF STEEL BALLS IN EXISTENCE.

Automatic Machines for turning and finishing Cones, Cups, Screws, Nuts, Nipples, etc. Our machines are used extensively by nearly every prominent cycle manufacturer in this country and Europe.

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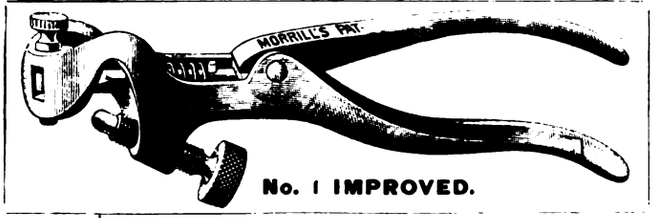
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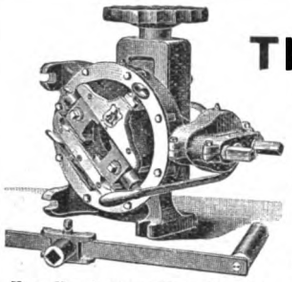
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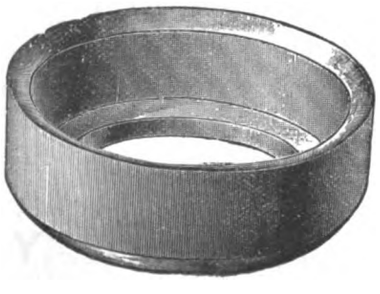
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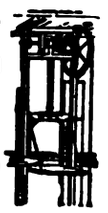
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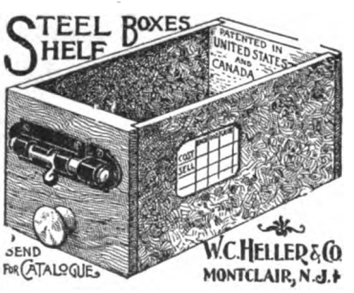
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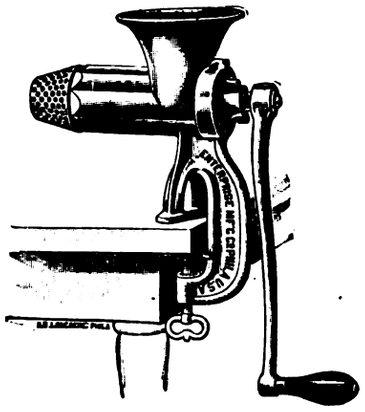
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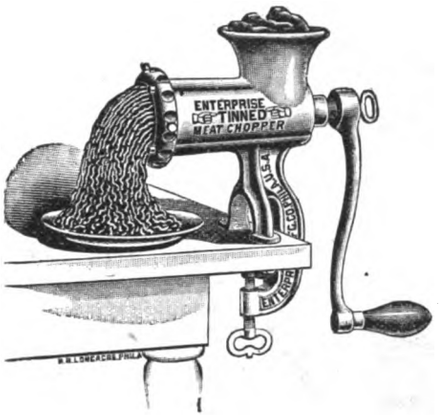
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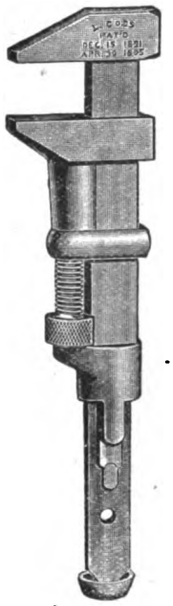
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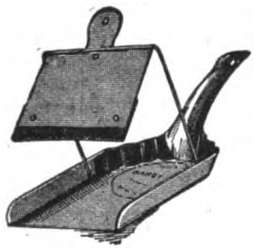
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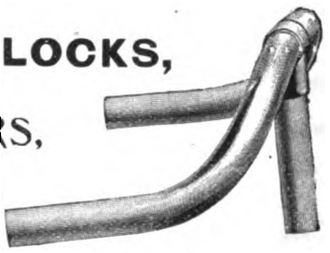
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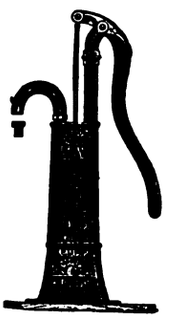
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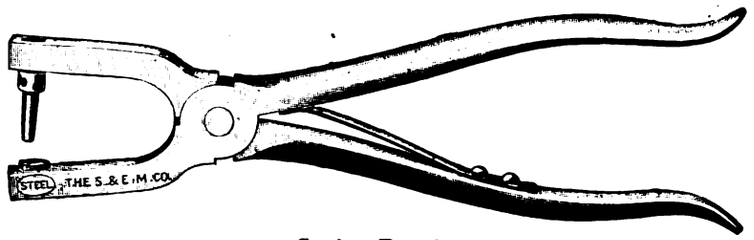
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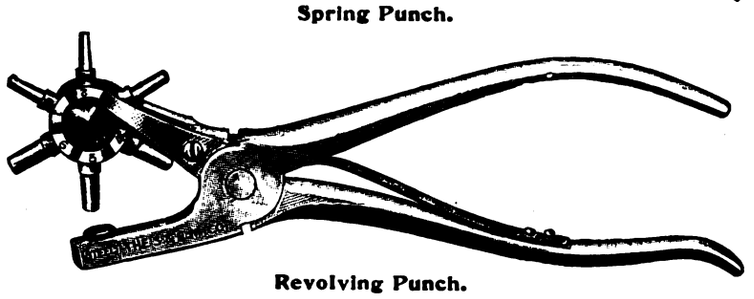
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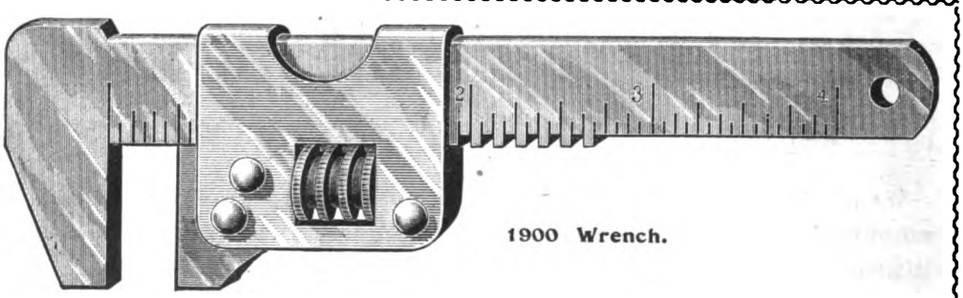
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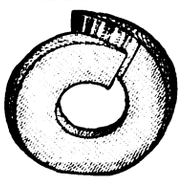
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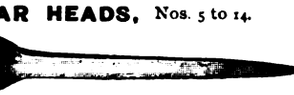
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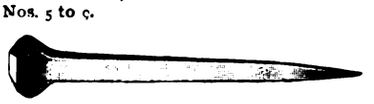


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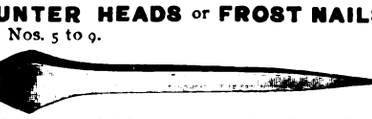
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HARDWARE

VOL. XVI. JANUARY 10, 1898. NO. 7.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING. CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

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HENRY HOPKINS, - - Associate Editor.
FRED. A, CATON, - - Asst. Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

At last we close the books of the year 1897 and begin another year which, it is the hope of all concerned in the business expansion of our industrial interests, will bring fewer unrealized expectations and a steadier growth of increasing wealth than characterized the year just ended.

A new era of consolidation and combination is upon us, born of a condition of competition among aggressive manufacturers who, under the belief that the cost of production may be materially lessened by a consolidation of manufacturing plants, are confident that without the demoralizing conflict of unprofitable quotations, gradual and periodical advances may be successfully maintained and a proportionate degree of profit made a certainty.

With the increasing importance of the leading makers in all the various lines which lend dignity to the Hardware industry, some such movement may be periodically expected. The tendency toward cheapening production under influences which permit no sustaining of prices that are not exorbitant, force the makers to protect themselves by some advanced methods of centralizing management, and so reap advantages only possible when production and distribution can be done on a scale of importance unobtainable under ordinary facilities hampered by an open market.

Such immense corporations as that now on the eve of consummation to govern the output of wire rods and the various products in which wire forms a component part will, eventually, if their plans are successfully carried out, so revolutionize prevailing methods, as to make unprofitable the running of smaller plants unable to compete. While, as a compensation, our ability to compete under more favorable conditions with the manufacturers of the old world, will bring us a national prestige in many countries that may lengthen our seasons of employment, even if it fails to increase the daily wages of the laborer.

The fact that the year 1897, taken as a whole, will show a large excess of export over the import trade, exerts a very gratifying influence in our speculation on the possible advantages of the future. With the figures for eleven months ending with November showing an excess of exports over imports of $283,521,805, we view with complacency the balance of trade preponderating so largely in our favor; especially when we see to what an extent our exports of manufactured product have aided in creating the grand total. This fact is all the more to be appreciated when we realize that our export of cotton during the eleven months was $57,000,000 less than in 1896, and a corresponding decline extended as well to our mineral oils, when compared with the year previous.

Eighteen-Hundred-Ninety-Eight.

"Let the dead past bury its dead." The year just closed has had many days in which hope told a flattering tale, many days that seemed filled with a glad surprise, and many and more that were disappointing in promises unfulfilled and pledges unredeemed; but the year, it can be truly said, leaves us with a solid background to our present feelings of confidence, infinitely more so than when the year was ushered in with so many harbingers of a happy and prosperous future, in the glowing fires beneath factory furnaces which had been dead to the productive world for many uneventful months.

A year ago we were more susceptible to outside influences and willing to take almost anything in the way of promise without a great deal of investigation. The wish was invariably father to the thought, and when the brisk beginning so earnestly gave assurance of an early fruition, and then took occasion to slump in numerous cases in a depressing manner, we felt as though our hopes had surely gone astray.

But now things look different. The manufacturers of many of our best products have been developing a trade in this country and abroad regarding which, previous to 1897, they had but little knowledge and but slight encouragement. To-day the backbone is stiffened by success, and the producer is constantly on the lookout for other worlds to conquer. He knows the country is rapidly recovering from the supine condition of a year or two ago, and will be heard from safely during 1898, when, should the domestic demand fail to reach the proportions so sanguinely anticipated, he knows there are other markets for which he can reach out and recoup himself without a single workman being made to suffer in idleness as of yore, or the factory doors compelled to close in a manner discouraging even to an under-sheriff.

No better evidence need be shown to demonstrate the happy frame of mind the leading manufacturers of the United States find themselves in the opening of the new year, than to notice the large number of new advertisements covering page after page of *Hardware* and its cotemporaries, showing the disposition on the part of these intelligent producers to echo the words of Addison, "'Tis not in mortals to *command* success, but we'll do more, Sempronius, we'll *deserve* it."

We might add as a corollary to the above thought,

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that never in the history of *Hardware* have the Hardware dealers of the country so flooded us with subscriptions as have come to hand during the past month, in response to earnest efforts on our own part to increase a circulation in trade circles that is acknowledged even now as unsurpassed.

Montreal Hardwaremen.

At the recent annual meeting of the Montreal Metal & Hardware Association, after the annual report had been read and adopted, the question of terms of credit was discussed, and the following resolutions adopted:

The Montreal Metal & Hardware Association, understanding that an agreement is being signed limiting the terms of credit on Hardware to four months or 3 per cent. off for cash, hereby endorses such action of the Hardware trade, and trusts that the limit of credit stated above will become general.

Allusion was made to what was considered excessive passenger rates charged by railways and other transportation companies to commercial travelers; also to the charges for travelers' samples, and it was resolved:

That this association's representative on the Council of the Board of Trade be requested to bring this matter to the attention of that body with a view of taking action in the matter.

The election of officers for the ensuing year resulted as follows: President, Geo. E. Drummond; vice-president, J. B. Learmont; treasurer, J. W. Pyke; directors, Charles Cassills, Frank Caverhill, Robert Gardner and C. L. Letang.

The firm of Berger Bros., No. 237 Arch Street, Philadelphia, was incorporated on December 20, 1897, and began from January 1, 1898, to be styled the Berger Bros. Co. The officers of the company are: W. H. Berger, president; William Barth, secretary: C. B. Geiser, treasurer. In announcing this change of firm, the company say: "We take this opportunity to thank our friends and patrons for past favors, and trust we will merit a continuance of the same in the future." Better and increased office facilities will be a feature of the change.

The Jackson & Woodin Mfg. Co., of Berwick, Pa., are extending their foundry building by an addition which covers practically one-half the ground of the original foundry. The construction of the new portion will be similar to that of the present building, having steel trusses supporting the roof and carrying the trollies for transporting material over the foundry floor. They have given the contract for furnishing and erecting the steel work to the Berlin Iron Bridge Company, East Berlin, Conn.

The paragraph in our issue of December 25, 1897, having reference to the new belting intended to be placed upon the market by the Rossendale-Reddaway Belting & Hose Co., of Newark, N. J., was somewhat premature, especially as to the name adopted to distinguish it. The name referred to in our notice, being one of those now the property of the Boston Belting Co., has been abandoned, and one of original significance will be adopted instead, when the belting is ready for marketing.

The Hartford Hardware Clerks' Association, of Hartford, Conn., held an annual banquet at Farmington some evenings since, and passed a most enjoyable evening. Following the supper, the presentation of appropriate gifts to several of the boys by President F. C. Bidwell caused much merriment. E. R. Clark received a sailboat, W. B. Odber, a blonde doll; L. E. Pellett, a whip-snapper, and A. S. Russell, a medal for fine appearance.

The Danger of Many Creditors.

The following pertinent advice to retail merchants is from the able address by W. H. Preston, ex-president of the National Association of Credit Men, delivered at the annual convention of the Iowa and Nebraska Retail Implement Dealers' Association, held at Council Bluffs, Iowa:

"I have found it the custom of many retail dealers to buy of several houses in the same line of trade. When a dealer is compelled to consult with the wholesale merchant because of his inability to meet his obligations and the absolute necessity of extension of time, I have often found him indebted to so many houses that it was almost impossible to obtain an extension for him. Many of the smaller creditors, knowing that they have little at stake, would insist upon being paid, and would refuse to grant an extension. The aggregate of the indebtedness represented by these smaller creditors would be sufficient to preclude the possibility of securing the desired extension. I am sure, therefore, that the retail dealer will buy to better advantage and have his account in much better shape if he confines his purchases to as few houses as possible, consistent with the need of sufficient variety in his stock to meet the requirements of his trade.

"One of the most unwise and unjust acts which a dealer can perform is to attempt to transfer his trade to another house while behind in his payments. The fact becomes known very speedily and causes collections to be vigorously crowded. * * * Be loyal to those who have granted you credit. Do not transfer trade when behind in payments. Wait until you have nothing past due, then place your orders with the firm offering the best opportunities."

The North Dakota Retail Hardware Association will meet in Fargo, on Wednesday, February 17th. It is expected that there will be a large attendance of the trade.

Hardware Terms Illustrated.



A WATER DIPPER—NEW DESIGN.

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The Basis of Credit.

To arrive at a decision in the matter of filling an order taken by a traveler, is sometimes a difficult task. But it is an important one, as losses are common, and the net profits of the business are considerably reduced thereby. In fact, almost every order that comes in should have careful scrutiny, in order that the leakage from this source should be reduced to the smallest fraction possible. The fact that the name may be already upon the ledger, should not of itself be sufficient for filling this order. His account should be examined, and something of his past record learned. This is one of the best means and surest ways of determining whether a man is entitled to further credit or not; and when you get an order from a man whom you have never had upon yonr books, if you had the opportunity of looking over his account as it appears upon your rival's ledger, you could with remarkable ease arrive at a conclusion whether to fill the order or not.

In too many instances houses in the same line of business, actuated perhaps by a petty feeling of local jealousy, object to giving much information about a customer of theirs to their fellow merchant. Now we hold this is wrong; and the interests of both would be better served, and the principles of sound trading would be furthered, if correct information were cheerfully given. Local associations of merchants in a given line of business have done much to remove this feeling of jealousy, and now most of them arrange to exchange credit information among themselves. The credit clearing house system which has been inaugurated seems to be an idea which is needed by the times, and appears a reasonable and feasible plan for the dissemination of information which is really valuable in forming a basis for credit.

A man's past record, with but few exceptions. should determine the question of his eligibility for credit in the future. If he has been slow pay in the past, he will probably be slow pay in his next purchases; if he has been prompt and satisfactory, he will likely be the same again. As an instance, I might mention a case which recently came under my notice. A trader who had gradually got to be slow and unsatisfactory was compelled to assign. His failure was not due to any misfortune, such as fire or flood, but seemed the natural consequence of his incompetence and lack of management. A wholesale house which had been supplying him lost heavily, but compromised, and as he continued, they still sold him, but on thirty days' time. For a while he promptly attended to his payments, but after a time he got slower and slower, and as he was a liberal buyer, and his purchases were allowed to accumulate, he soon owed a bill far larger than his means would warrant. As this dragged along for some years a compromise was granted upon this indebtedness also. Still he clung to his old creditor, and again ordered goods, promising to send the money within thirty days. But his past record was too much even for so lenient a creditor. He was told plainly that he would get no more goods on credit, and that if he ordered anything cash must accompany the order in every case. Now a man of this stamp is a positive detriment to a man who pays his bills. After thus being refused credit by the old house, he will try and get it elsewhere, and no doubt will succeed. But if his record is known, it should be a final answer to the question of granting him credit.

Again, a man may have been trading with a house for a number of years and it may be advisable to reduce his line of credit. His record may not be satisfactory. A storekeeper who has been in business for, say, ten or fifteen years, and if he is slower in his payments than at first, it plainly shows that there must be some reason for it; and unless it is a satisfactory one, it is almost a sure sign that the man is not as prosperous as he should be. A man in business, if he is making money, should become more forehanded in money matters, while if he is not, it is a very fair inference that the opposite is the case. A trader's credit should improve with time; his gain in capital should manifest itself in his better payments.

A man may have a high financial rating in the mercantile records, yet his record may be such that it does not correspond with his reputation. He may be considered such a desirable mark that he is allowed his own way and his own time to settle, yet a little experience will show something wrong, and that his manner of settling would warrant a curtailment of his credit in disregard of his high rating or reputation as a good mark. In fact, the credit rating of some firms is too high, as it is not to be supposed that the mercantile agencies can always be correct; but the manner in which a man settles his account is of far more value than high rating. Experience has proved that when any man shows a slowness or unsatisfactory method of settling, that his account should be carefully watched, no matter how well spoken of he may be by the traveling men; and that in nine cases out of ten prudence will dictate to cut down his line of credit, as there may be trouble ahead for the firm who supplies him. LYLE MERTON.

From Joseph Dixon Crucible Co.

Editor Hardware: In 1893 it was a case of business paralysis, in 1894 we had a year of debility, in 1895 the patient partially revived, in 1896 came a relapse, but in 1897 came recovery, and the patient took up his bed and walked. The great medicine man was dollar wheat and thirty-cent corn, plus poor harvests at this exigency abroad.

I saw it myself, for in November I visited Indianapolis, Cincinnati, Chicago, Omaha, Denver, Kansas City, Pueblo and St. Louis, and saw everyone up to his eyes in new business. The consumer at last had money once more, and was spending it.

The industrial triumphs of 1897 are important. In this year the business cloud passed away and another era of prosperity, hopefully of long duration, opened. Export trade was larger in the fruits of the harvest, and particu larly in manufactured goods, than in the history of the country. Americans are competing in every market. American motors won the order in London. On a bridge in Holland an American firm was the lowest bidder. American steel rails go regularly to China, Japan and India. A movement is on foot to have the English Parliament pass a law changing the stamp on goods not made in England, stamped "Abroad" instead of the country where they are made. This is an effort on the part of the English lawmakers to obscure the origin of these goods.

For the Dixon Co. personally, we have shared in the general prosperity. The year has been an agreeable one, the future looks rosy to those who have eyes to see. Perhaps the outlook was never more inviting. Never were there so many roads open to wealth to those who know how to find them. Yours truly,

JOHN A. WALKER, Vice-President.

Another Medal for "The Bissell."

The Bissell Carpet Sweeper Co. have been awarded the medal of superiority for their very elegant display in the American Institute Exposition, which closed at the Madison Square Garden on December 1st. They have been awarded the same high prize at every exposition that has been held by this Association for the past fifteen years.

Austria, with Hungary, had 5737 miles of railroad at the end of 1896. The gross revenue was $52,000,000, the working expenses $35,000,000, and the net revenue $17,000,000 on an invested capital of $570,000,000.

Omnibuses were first started in Paris in 1862.

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Palmer's Utopia Hammocks.

As the almanacs used to say, "about this time of the year," the thoughtful and progressive Hardwareman begins to turn his attention to the hammock season of 1898, and naturally his eyes turn toward headquarters, at Middletown, Conn.

It is needless to say to those who know I. E. Palmer, that he is always up to the present date. He has made hammocks for so long, and has made them so well, that his

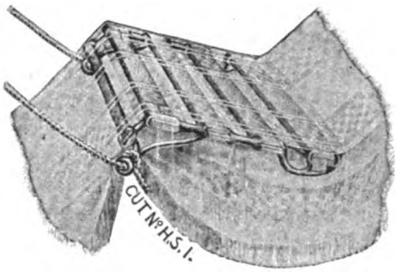


FIG. 1—UTOPIA HAMMOCK SEAT.

products have held youth and beauty, old age and childhood, in every corner of the globe; and to-day, while snow and frost are about us, the products of his factories are swaying in the summer breezes of the tropics, and furnishing a place of refuge to the residents of far-off Indian climes. It will be our turn, very soon.

We have received from Mr. Palmer a handsomely illustrated catalogue of his latest designs, upon every page of which may be found something of interest and value to the trade. It illustrates and fully describes his patent canopy fixtures and canopies; mosquito nettings, window screens, piano cloths and crinoline linings; patent hammocks and hammock suspension devices; self-adjusting pulleys, school bags, etc. These various articles are shown, with full descriptions, and in a note of introduction, Mr. Palmer says: "In presenting this catalogue, I trust, upon investigation, that all goods represented herein will be found to be of the highest type of excellence, and are warranted in their respective classifications."

A special feature or so from this work, warrant a more extended notice here, showing a line which should interest every Hardwareman. These goods are Palmer's Utopia Hammocks, several illustrations of which are here shown. "In 1883," says the manufacturer, "I of-



FIG. 2.—UTOPIA HAMMOCK, RECLINING POSITION.

fered to the public the Palmer Woven Hammock, with pillow, spreader, divided suspension, and other distinctive features in construction. Later, I applied to the hammock the valance, both useful and ornamental. I now offer the Palmer Utopia Hammock, believing it to be as superior to other hammocks, as those of 1883 were to other hammocks of that period. The Utopia, with the radical improvements, embraces all the desirable features of my other hammocks, making it par excellence *the hammock*." He further adds: "Should any persons infringe any feature of the Palmer Utopia Hammock, or deal in such infringing hammocks, I shall promptly and vigorously prosecute them. The theory upon which the Palmer hammocks are made gives greater strength and durability than is obtained with the same amount of material by any other method."

In Fig. 1 is shown the Utopia Hammock Seat, which is



FIG. 3 UTOPIA HAMMOCK, READING POSITION.

composed of two sides (malleable iron) three fixed slats or rungs, and two removable slats. For the purpose of varying the length between the seat and the pillow and for detaching the seat from the hammock, the front slat is made removable from the hammock body by pressing a spring, similar to an umbrella spring, at one of its ends. The body of the hammock is provided with a plurality of pockets in close proximity for the purpose of receiving the removable slat for adjustment. The back slat is made removable only for the purpose of detaching the seat from the hammock, the pocket for this slat being made of sufficient length or width to admit of any desired adjustment of the seat by means of the front slat. The body of the hammock for receiving the seat is quite similar in its general characteristics, to the ordinary Palmer hammock body, the features for adapting the body to the seat being simply the attachment of an under web to the hammock body

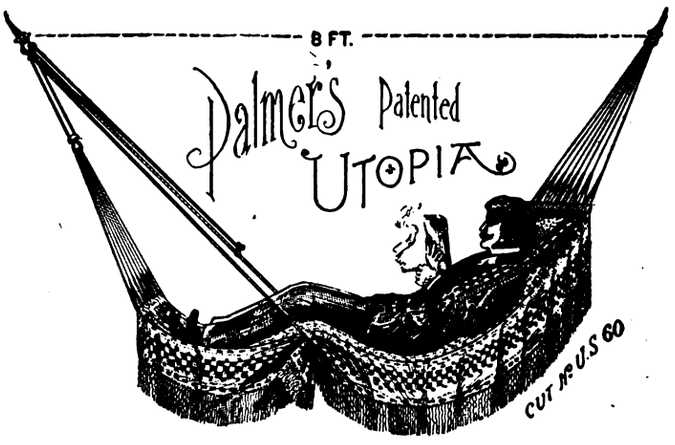


FIG. 4—FULL RECLINING POSITION.

proper, at such intervals as to form the required pockets. Ropes from an extra ring connect with the arms at the front of seat support and permit adjustment of seat and foot portion of the hammock. These ropes should always be of such equal length from ring to the eye of arm."

In Fig. 2, the Utopia is shown with the occupant in a reclining position, which may be changed to more upright by raising the head end and lowering the opposite end at points of suspension, and vice versa if more recline is de-

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sired. The feet may be raised or lowered by the extra side cord and sliding grip.

Fig 3 represents the occupant of a Utopia Hammock in a comfortable reading position(with arm supporters), which may be varied to a number of postures, adding thus, by change, to the comfort of the occupant. Fig. 4 shows the occupant in full reclining position, which may be varied to sleeping position by lowering the head end.

This catalogue, which should be examined by every dealer, will be sent on application.

Parish & Unger.

Parish & Unger, Nos. 53 and 55 Warren Street, New York, have succeeded to the business of the Haida Lamp & China Co., and contemplate extending their business very materially for 1898 trade, by adding a number of new departments that will add largely to the present space of their attractive sample rooms. This well-known house was established in 1882, and have ever since done an annually increasing business blest with all the elements of popularity and prosperity.

Independent of the increasing importance of their large stock of china, lamps, English crockery and other goods identified with their established business, they have several specialties of their own production, the manufacture of which has increased their prestige in the trade, and augmented their annual sales to an extent noticeably important. Among these the "Empress" Lamp Chimneys,



made in about twenty-five different styles, have achieved a pronounced success. These high grade goods are made in their factory in New Jersey, which is complete with the most perfect accessories to modern improvement in production, being made of the best lead glass, and are claimed to have no superior on the market. Their handsome trade mark, shown in their announcement on page 37, is etched on each chimney, every one of which is separately papered and carried in stock in full supply in packages, or open stock, as may be required by the wants of their customers.

This firm and their representatives are extremely popular with the trade handling lamps and glassware, and the *personnel* of the firm consists of Thomas Parish, Benjamin Unger and Edward A. Unger; while among their staff of travelers will be noted Harry G. Mills, for the last four years associated with George F. Bassett & Co.; A. J. Rhodes, whose territory extends to the Pacific Coast; Wallace G. Hawley, covering territory visited periodically by him for five years past; Samuel H. Wharton, whose knowledge of Philadelphia, Baltimore and Washington trade is surpassed by none, and Howard W. Danser, who will make good use of the fact that the firm is headquarters for "Johnson Bros.' English Dinnerware." William J. Cassin, who has been with the house for fifteen years, will join the throng of travelers for 1898; while Edward A. Unger of the firm, will still make his customary trips to Rhode Island, Connecticut and Massachusetts. Hardware dealers handling lamp chimneys and similar specialties could not do better than open up correspondence with this reliable house, whose catalogue and quotation will be gladly furnished upon request by the trade.

Spirits are said to be "proof" when they contain 57 per cent. of alcohol.

National Association of Manufacturers.

The district members of the National Association of Manufacturers of the United States, consisting of Warner Miller, chairman; Augustus G. Paine, treasurer; Charles E. Locke, secretary; Pliny Jewell, Benjamin Atha, Charles A. Shieren and Charles A. Moore, vice-presidents, have been in almost constant session during the past two weeks, organizing for the third annual convention of the National Association of Manufacturers, which will be held in New York, January 25th, 26th and 27th. The business sessions will be held in the Masonic Temple, corner of 23rd Street and 6th Avenue, upon the days of Tuesday, Wednesday and Thursday, January 25th, 26th and 27th, and upon Thursday evening, January 27th. Additional committee rooms for the accommodation of the various sections of the Association have been secured at the Fifth Avenue Hotel, which is nearby the Masonic Temple. The social headquarters will be at the Waldorf-Astoria. The night of Tuesday, January 25th, will be devoted to a grand Bohemian smoker, the details of which are in the hands of a committee. The grand banquet will probably be the largest ever given in a hotel, and will also take place at the Waldorf-Astoria on the night of January 27th, and President McKinley has promised to be present.

Closed for Enlargements and Repairs.

The four factories of the Nicholson File Co., Providence, R. I., closed their producing departments on Friday, the 24th, for a period of nine days, till January 3rd, in order to effect certain absolutely necessary enlargements and repairs. The executive and shipping departments remain open, to provide for the continued prompt dispatch of all orders received. Extensive additions are being made to the inside equipment of the factories, while the buildings also are being considerably enlarged. The capacity of the Nicholson plant at Providence, where is manufactured the famous Nicholson Brand, will be brought up to where it can more readily meet the demand, while the works at Pawtucket, R. I., and Beaver Falls, Pa., where are made the well-known American and Great Western brands respectively, will be enlarged to admit of a greater production. The company plan to be in a position where they may produce an average of over 70,000 files daily after January 1st. The increased domestic and foreign demand rendered these changes necessary.

The Hardware trade everywhere will sympathize with T. James Fernley, secretary-treasurer of the National Hardware Association, in the death of his father, Rev. Thomas A. Fernley, D.D., who passed away, in Philadelphia, December 23d, 1897. He had been afflicted with a slight cold for some days previous to his death, but had not been confined to his bed. While conversing with a visitor, he was taken with a congestive chill, and soon after passed away. Dr. Fernley was 72 years of age, his pastoral services having practically closed in 1884, when he became secretary of the Philadelphia Sabbath Association. He was an eloquent, able, earnest and faithful minister, and was respected and esteemed by all who knew him.

A dispatch from Topeka, Kan., announces the death of J. H. Martindale, of the Hardware firm of Miller & Martindale, who was found frozen to death in a pasture near that town some days since. He was riding with a friend, and left the buggy for the purpose of finding a buffalo robe which had been lost. As he did not return, his friend made search for him, but was unable to discover his whereabouts.

Four large tablespoonfuls make half gill of liquid; one teacup holds one gill; a large wineglass two ounces.

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RECENT TRADE PUBLICATIONS.

The Canton Steel Roofing Co., Canton, Ohio, are distributing to those interested, their large and handsome "Catalogue C," covering a line of Stamped Steel Ceilings, etc., and intended for the business of 1898. The steel ceilings and wall patterns made by this company are invariably of late and original designs, and being constructed in a careful and accurate manner, can be laid with unusual rapidity and a perfect job secured accordingly. They are made with joints so dust proof and tight fitting that the point of contact is scarcely noticeable when adjusted. As good and careful construction is a point most sought after by architects and expert builders, the care with which these materials are made, makes perfect work possible and enables any design to look attractive, while without it, an appearance of unskillful construction is unavoidable. The company have many styles which present continuous patterns in strong relief, making also some of their panel styles in three different degrees of depth. This makes possible a variety of combinations giving bold and pleasing effects, which are always appreciated, as monotony of design is thereby avoided. Among the claims for superiority presented by this company an important one is that their plates are prepared by being resheared on all sides after they are stamped, which makes them line perfectly straight and regular, and makes it immaterial which way the plates are lapped, as the lap is not noticeable after the plates are applied. They can, consequently, be laid and painted more rapidly than others less perfect, as they require no puttying up or calking of joints, which, in too many cases, add largely to the cost of construction. Among these advantages may also be mentioned the fact that each of their plates is interchangeable with any other (with a single exception—where the use of a border is essential to complete the design) all the plates, mouldings, friezes, stylings, etc., being primed both sides with white paint unless otherwise ordered. The catalogue is embellished with handsome illustrations, showing their various designs of ornamentation, by half tones, taken from completed ceilings and side walls, admirably giving the extent and variety of their various material. It is provided with a telegraphic cipher code, covering every number of their patterns and parts. Dealers, architects and others interested in the goods referred to will be greatly benefitted by the possession of this catalogue, which will be mailed to possible patrons upon request.

The Logan-Gregg Hardware Co., Pittsburg, Pa., who are valued correspondents among our market letters, have recently issued a little paper of their own, of which No. 2 is before us, called *Hardware Hints*, and devoted, as they state on the heading, "to the cultivation of a better acquaintance with our customers." The advantages of the distribution of a monthly sheet of four pages such as *Hardware Hints*, enables the jobber to exploit in a pleasantly attractive manner, the new and seasonable specialties as they are needed by the retail dealer; gives their patrons entertaining reading matter having reference to their business; keeps their customers constantly in touch with their stock, and furnishing in its reading columns the advertising matter for local advertising which the country dealer is usually rejoiced to have placed in his possession. In the interesting contents of the present number they publish in *fac simile* a "statement," dated Sept. 1, 1866, covering sales made during a year previous; their comments on this document we give herewith, indicating as they do, the period of time this old house has been a Hardware landmark in the Iron City.

"YE OLDEN TIMES."

"We present above a *fac simile* of an invoice sent out by us some thirty-three years ago. This was during the era of war prices, and an inspection of the items and comparison of the prices charged, with those ruling to-day, is calculated to bring a smile to the lips of the well posted merchant, as well as to inspire the wish that we might again have a taste of such 'bonanza' times. Wool twine at 30 cents, cotton rope at $1.25 and coal scuttles at $1.75 each, are articles which exhibit, perhaps, the most marked evidence of the tremendous decline which has taken place since then. Our contemporary records of this and later years show, however, just as surprising a drop all along the line, when comparison with present prices is made. Only so long ago as 1883 double bitt axes were selling at $18.00 per dozen; coke forks at $40.00 per dozen; Potts iron handles at $5.00 per dozen; 10 in. Button's plyers at $17.00 per dozen; manilla rope at 16 cents a pound, and many other items that would now seem exorbitant prices, were no rarity, while to-day as good, and in some cases far better, quality of the same goods can be purchased at surprisingly low figures The steady improvement in the manufacturing arts has so reduced the cost of production, probably more in the metal industries than anywhere else, that prices a few years ago deemed impossible are now realities. The consumer has certainly been most benefited by this reduction, but there are still opportunities for the merchant. Now-a-days an up-to-date stock, prompt service and fair treatment are important considerations as well as price. We claim to sell you goods at low prices, and as for the rest we point with pride to a record extending back to 1831, in which year the house was founded. We occupied our location on Wood Street for so many years as to become almost a landmark, but four years ago our increasing business induced us to remove to our present warehouse on Seventh Street below Penn Avenue, and two years later we were incorporated under the name of Logan-Gregg Hardware Co., at which location and under which name we are ready and anxious to serve you."

F. E. Myers & Bro., Ashland, Ohio, issue, suitable for the season, the most graphically illustrated and useful calendar which has come under our observation. In order to prove that "their line is without an equal on the globe," they show in the ample space given on the sheet which holds the calendar proper, every illustration of their goods which is to be found in their very extensive catalogue. It is their desire that in hanging this up in the store of the dealer reached by the calendar, to stimulate the wants of that dealer's customers by their constant perusal of the many illustrations, and as each picture has the catalogue number in green ink ornamenting it, it is an easy matter to order the part or the appliance pictured thereon with great ease, convenience and profit. In addition to all this utility, the ornamental and artistic are by no means neglected. At the head of this large hanger, which measures over four feet long, is a very handsome farm house scene in which the milkmaid and the hired man are wasting so much time in the vicinity of the farm pump—which of course is a "Myers' Pump, with a glass valve seat"—that the old farmer in the background threatens to follow them up with a fence rail. This is a calendar worthy of being

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added to the stock of embellishments, without which, at this season of the year, no Hardware dealer's walls are considered properly adorned.

The Remington Arms Co., Ilion, N. Y., Hartley & Graham, general agents, No. 315 Broadway, New York, have recently issued a very handsome and artistic booklet having reference to the new Remington small bore arm, which is produced to supersede the regular Remington single shot military rifle, illustrating as it does in its skillful construction, the most perfect of quick-firing high-power military rifles which the science of gun making has yet evolved. This booklet is being distributed to the various foreign governments contemplating rearmament, especially the South American governments. It is claimed by the manufacturers that they have in this new single shot rifle a weapon for military purposes fully the equal of any small calibre magazine arm which has been adopted in Europe or elsewhere within the past few years, and possessing none of the inherent disadvantages arising from breech mechanism usually more or less complicated. Among the many claims for advanced improvement put forth by the makers, it is stated that in order to withstand the increased pressure of smokeless powders, they have greatly strengthened the breech mechanism, and made use of the finest grade of steel throughout, so that there is no risk of its being upset, nor can it be shot loose by long continued use. The booklet is printed on a superior coated paper, with contents in English and Spanish, and will no doubt amply fulfil the purposes of its creation.

The Buhl Stamping Co., Detroit, Mich., present the compliments of the season with an 1898 calendar, on which the taking feature, in addition to its use as a calendar, is a map of the entire United States. The surface of this map is not made useless by an all-pervading advertisement, for only on the top and bottom of the entire sheet, which is arranged for hanging upon the office walls of the firm receiving it, will be found a few references to the several varieties of the "Buhl Milk Cans" which, under the names of "The New Sunlight," "Genuine Iowa," "Eastern Pattern" and "Western Pattern," have already achieved a national reputation. The calendar will be forwarded upon request being made to the company.

The A. J. Phillips Co., of Fenton, Mich., have published a very attractive catalogue of their line of wire screens, snow shovels and patented novelties. They have taken as their watchwords the words "Phillips" and "Excelience," which suggest not only the name of the manufacturer, but the quality of their goods. This book contains illustrated descriptions of their various lines of screens for windows and doors, their different makes of snow shovels, and Phillips' clothes bars, snow and stable scrapers, boys' stilts, repair boxes, nail boxes, folding tub stands, bicycle stands, door holders, card holders, etc. This is a seasonable contribution to the Hardware literature of the day.

From E. I. DuPont de Nemours & Co., Wilmington, Del., we have received an extremely handsome and very artistic calendar, in which a characteristic scene, emblematic of a day's good sport in the gunning season, is indicated by the large colored engraving of a pair of hunting dogs, shown in a condition of action enjoyable to the hunter; a brace of partridges, a pair of breech loaders and a couple of wild geese, make up appropriate accessories to a first-class calendar; one worthy of being hung among the finest office adornments that at this advanced date make business life enjoyable.

The Bridgeport Chain Co., Bridgeport, Conn., have issued a catalogue of their various lines of chains, which are illustrated and described on every page. A great many details of information are given, with prices, etc. An examination of the catalogue seems to suggest that nothing which can be wanted in the chain line has been omitted therefrom. This catalogue will be sent upon application.

The Cleveland Twist Drill Co., Cleveland, Ohio, with New York store at No. 99 Reade Street, have published a combined memoranda and calendar, which not only serves as a guide-post during 1898, but makes an attractive ornament, and furnishes some valuable information concerning the "Old Reliable" Cleveland Twist Drills.

We have received from Messrs. Robinson & Fox, exporters, No. 35 Warren Street, New York; No. 44 Broad Street, Boston, and Newfoundland, a very handsome and attractive calendar for 1898, printed in colors, with very distinct lettering and handsome enough for an ornament upon the wall of any office.

The Dean Linseed Oil Co., No. 181 Front Street, New York city, are sending to their friends once more, a handsome wall calendar, consisting of a patent leather frame, enclosing cards for each month in the years 1898 and 1899. It is a very neat and useful ornament.

The Importance of Oiling.

To obtain the best results from any bicycle, it should be properly oiled. No wheel will be at its best unless careful attention is given to this matter. Few people have any idea of the injury done thousands of machines by neglect in this respect. Fault is frequently found when probably the sole trouble is the result of carelessness in oiling. Oil frequently and only a little at a time. Avoid extremes. Do not let your bicycle suffer from want of oil; and, on the other hand, do not saturate it with oil, as the overflow causes dust and dirt to collect, which not only soils the hands and clothes, but interferes with the working of the machine. It is an easy matter to oil any article properly if it is done with the "Perfect" Pocket Oiler. This oiler does not leak and is neat and convenient. It is so handy that there is little chance of the machine suffering from neglect, and as it regulates the supply of oil, there is no danger of an overflow causing the accumulation of dirt. If you do not own one of these oilers already, get it at once from your dealer or from the makers, Cushman & Denison, No. 174 Ninth Avenue, New York. It costs only 25 cents, and will save that amount in a short time in the economy of oil. The avoidance of grease and dirt makes it worth a hundred times the price. This firm also make a line of cheaper oilers for those who wish something lower in price.

Stanley Rule & Level Co.

In their handsome new quarters in the Cary Building, No. 107 Chambers Street, New York, the Stanley Rule & Level Co. are as conveniently and comfortably located as any manufacturing company on the street. Having an entire floor, which runs through the block to No. 91 Reade Street, devoted to their business, their increased facilities enable them to carry a much larger stock than ever of their labor-saving specialties. The floor having been entirely refitted with a new equipment of shelving, etc., the steam-heated and electrically lighted premises extend a more grateful welcome to their old friends than ever before. No firm to-day is better fitted to handle the increased patronage predicted for 1898 and no manufacturing company more thoroughly deserves its success.

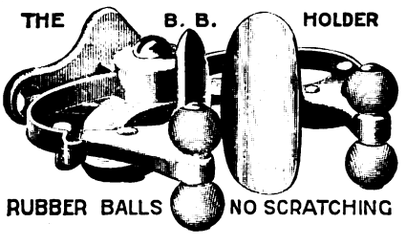
The Riverside worsted mill, of Providence, R. I., are making some extensive improvements in their plant. Among them is the rebuilding of the boiler house, which is being constructed so as to have it absolutely fireproof. The walls are of brick, and the roof will have metal supports with a tile roofing. The contract for furnishing and erecting the iron work has been given to the Berlin Iron Bridge Co., East Berlin, Conn.

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NEW GOODS AND SPECIALTIES.

Ball-Bearing Bicycle Holder.

The Bristol Bell Co., Bristol, Conn., is placing upon the market something new in the way of a Bicycle Holder which will doubtless become extremely popular. It is called the "B. B." (ball-bearing) Holder, and we give herewith an illustration of it which will convey an idea



of its great utility. It is automatic in its action, and can be adjusted to any desired angle. The rubber balls which are attached to the spring-actuated clutches afford a frictionless rolling motion, which effectually prevents all scratching and marring of the beauty of the wheel, for no matter how swiftly it may be thrown between the clutches, or even if the mark is missed entirely, no damage results. It holds a lady's wheel rigidly, so that she is enabled to mount carefully and with some degree of comfort and satisfaction. The improved method of operation, arising from its ball-bearing features, will undoubtedly prove very popular. The manufacturers, identified as they have been for so long a time in the production only of articles possessing superior merit, intend bringing the advantages of this new holder before the riders of the country in an intelligent manner. The holders will be made in three styles and finishes, and they are intended to be marketed through the jobbers who are legitimately engaged in distributing similar goods. Further particulars will be furnished by the manufacturers upon request, and dealers desiring to handle a salable specialty will do well to write for information as to prices, etc.

The Gale Automatic Safety Sash Lock.

Rufus E. Eggleston, Philadelphia, Chicago and New York, with factory at Newark, N. J., is placing upon the market, with no small degree of success, the Gale Automatic Safety Sash Lock, which is shown in full size herewith in Fig. 1. It is also shown in parts in Fig. 2, and the illustrations together convey a very good idea of this ar-

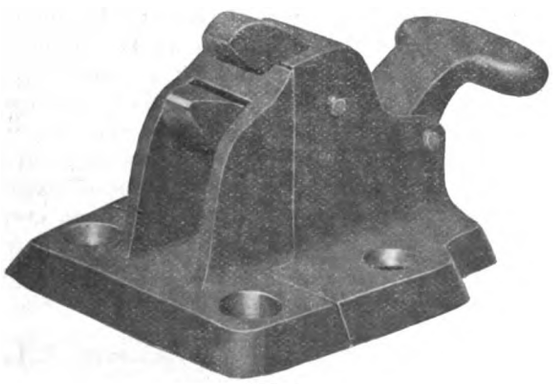


FIG. 1.

ticle. Among the many points made in its favor are the following: By keeping the sashes continually locked, it prevents their warping, and if the upper or outside sash has dropped or sagged, this lock forces it up to the head of the frame, and makes it absolutely fast. Even if the sashes should not be entirely closed, the window would still be fastened, as the Gale Lock fastens in three different places, or when the meeting of the rails are as much as ⅜ of an inch out of plumb. The manufacturers further say that there is no scratching or chipping of the woodwork, no catching of either sash, and that they are strong, durable, compact, effective and well made. The sizes and styles are varied to suit different windows, and are furnished in all the popular finishes. The makers further say: "Other window locks have promised equally sure results, but the nature of their construction makes them unreliable and easy to put out of order. The Gale Automatic Sash Lock cannot get out of order, even when misused. It has no springs, no complex parts, simply free moving pieces of metal, which slip into place when the window is shut. You take no midnight excursions in search of something to wedge the sashes when they are fastened by the Gale Automatic Sash Lock. It holds them rigid, no rattling



FIG. 2.

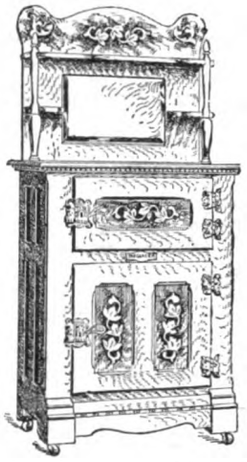
possible. All this accomplished simply by closing the window." Mr. Eggleston is publishing a very handsome catalogue, fully illustrating and describing this article, upon which is the taking title, "Familiarity Breeds Content. It never fails." This will be sent on application to the makers at the following addresses: Philadelphia, Mutual Life Building; New York, Postal Telegraph Building; Chicago, No. 764 Monadnock Building.

The "Leonard Cleanable."

The Grand Rapids Refrigerator Co., Grand Rapids, Mich., have issued a handsome catalogue for 1898, upon which, in bold letters of gold, stands the well-known trademark, "The Leonard Cleanable." This book is very handsomely prepared, and printed in green and black upon a very fine paper, which shows each article out with wonderful distinctness. It is not necessary at this late date to introduce "The Leonard Cleanable" to the Hardware trade. In the construction of these goods, the makers state that they use every improvement known to the trade to produce a first-class article. The outside cases are made of ash and finished in the new shade of reddish antique. All the carvings are raised instead of sunken, as heretofore, and the designs are most delicate and artistic.

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They add: "The interior workmanship, we believe, is unapproached by any other factory in the country. We use mineral wool for insulation, combined with charcoal sheathing in such a manner as to give eight walls for the preservation of the ice. All of these refrigerators are fitted with our celebrated movable flues, which obviate the necessity of removing the whole ice box for cleaning.



Even the waste pipe is removable. The Leonard Airtight locks are another special feature of these goods. The ice racks and shelves are made entirely of galvanized iron. The bottoms and backs of these refrigerators are paneled as nicely as the fronts and ends. The refrigerators are all mounted on ball-bearing casters, and packed in a first-class manner for safe shipment to any part of the world. The constantly growing popularity of these goods is induced not only by their merit but by the liberal advertising given them in the magazines, of which all agents reap the benefits. Catalogues free on application."

Repairing Kits, Etc

Special attention is called to the card of Brandenburg & Co., manufacturers of family shoe, harness and tinware repairing kits, found upon page 66 of this issue. These sets have served to fill "a long-felt want," and are described as "just the thing for a thrifty family and mechanic, and in consequence, many thousand sets are being sold every week by this popular firm." Storekeepers who are looking for a money-making, rapid seller should investigate the merits of these goods, as they are something which every family should have, and sell rapidly on sight. This company are also sole proprietors of the Bonanza





Half soles, which are specially adapted for family shoe repairing, and which are sold at a price within the reach of those who wish a good thing for little money. These sets, and the half soles, are being largely sold by the Hardware and general store trade, and the company inform us that business is growing rapidly. Full information as to prices and details will be furnished upon application to Brandenburg & Co., No. 41 Peck Court, Chicago, Ill.

The Stanley Works, of New Britain, Conn., and New York, state that the demand for their ball-bearing butts is rapidly increasing, and that these articles are being specified for many of the larger buildings to be erected during the coming season.

The Nicholson "New Year's Greeting."

The Nicholson File Co., of Providence, R. I., have favored their trade friends with a most original and tasteful New Year's greeting. It is in the form of an old English parchment sheet, engraved in old-time lettering with ap-


To All and Singular to Whom these presents shall come Greeting

Whereas in times past it has been the custom in sundrie places and in divers manners on the recurrence of the New Yeare for all good people to send felicitations and goode wishes to their best and dearest friends . . Now Theretore know ye that the goode things said and done in the Olden Tyme be not forgotten and fall into desuetude to the detriment of the goode feeling holding between friends And Whereas it is goode and profitable for the soul's health to interchange sentiments of good-will particularly at this time and especially towards those for whom a sincere regard is entertained And Whereas it is destrable that this commendable custom should be maintained I hereby in all goode faith and honesty send these presents Wishing you health happiness and all the compliments of this joyful season with the loyal and fervent hope for a bright and happy New Yeare

Witness my Hand and Seal this first day of January in the yeare of Our Lord One Thousand Eight Hundred and Ninety-Eight

Signed Nicholson File Company
Jno. M. Nicholson Pres.

FAC-SIMILE OF NICHOLSON FILE CO.'S NEW YEAR'S GREETING

propriate well wishes, both the engraving and wording being after the manner of ancient court documents. At the bottom appears President Nicholson's signature, with a crude old-fashioned red seal stamped beside it. The whole is in keeping with the high standard set by this concern in everything they undertake. So attractive is it that we reproduce it herewith.

Failure in Syracuse.

The trade some days since learned with surprise of the closing of the wholesale Hardware store of Bradford Kennedy & Sons, Syracuse, N. Y., on executions aggregating $40,626 36. The liabilities of the concern are about $100,000 and the assets $120,000. The assets consist of the stock, which is worth $70,000, and the book accounts, some of which are bad.

Mayor McGuire, who for many years was connected with the firm, but who retired recently, on being asked the reasons of the failure, said:

"The great shrinkages of values in metals during the past six or seven years, together with excessive amounts paid retiring partners amounting in principal and interest to nearly $225,000, bad collections and failures in trade, are the chief causes of the failure. My partnership has been a special one and in the contract I was guaranteed exemptions from debt liability. The firm dissolved recently and gave the notes for the amount that was due me. I have not taken judgment, as I do not care to evade the settlement of anything I am bound for. If the stock, realty and accounts could sell at par there will be enough for everybody. The great trouble will come from the depreciation The salaries of the employees have been paid in full."

The annual supper, given by the Tabb & Jenkins Hardware Co., of Baltimore, Md., to their traveling salesmen, occurred some evenings since at a prominent restaurant. Besides the officers of the company there were present about twenty-five of the house employees and fifteen salesmen, some of the latter coming from a great distance to be present. The occasion was marked by good fellowship, and the menu was an excellent one. Plans for the coming year's campaign were discussed, and views exchanged as to the best method of securing trade. C. T. Jenkins, the secretary and treasurer of the company, was the presiding spirit of the feast.

Sound moves at the rate of 743 miles an hour.

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Nicholson File Co.'s "Extra [XF] Fine" Files.

We present herewith in *fac simile* the price list, dated January 1, 1898, of the Swiss pattern files, tools and specialties, manufactured by the Nicholson File Co., Providence, R. I., and known under the distinctive trade mark of "Extra [XF] Fine." This superior product has already achieved a reputation for excellence in quality which has greatly lessened the importation of Swiss and Grobet files, formerly considered so necessary in a stock which catered to the wants of the jeweler and watchmaker. The prejudices of these skilled artisans in favor of imported files were very pronounced and hard to overcome, but, as in every other branch of industry requiring files and rasps, which were conquered by the undeviating excellence of American-made files, this extensive and useful variety finally capitulated and the American product holds the field.

Some careful experiments which have been made in England prove that the life of a locomotive is about 500,000 "train miles." In other words, that a locomotive of the latest approved pattern will run 500,000 miles before wearing out so as to be useless. In making this run of a half-million miles the fire-box will have to be renewed, the wheel tires five or six times and the crank axles from three to five times. — *Boston Budget.*

PRICE LIST OF NICHOLSON FILE COMPANY'S EXTRA [X * F] FINE SWISS PATTERN FILES,

ALSO TOOLS AND SPECIALTIES.

JANUARY 1st, 1898. *PROVIDENCE, R. I., U. S. A.* PRICE PER DOZEN.

HAND, ONE SAFE EDGE.

Inch	3	3½	4	4½	5	6	7	8	10	12	14
Cut No. 00 & 0	2.30	2.40	2.80	3.50	3.80	4.50	5.20	6.30	9.00	10.80	13.00
" " 1 " 2											
" " 3 " 4	2.50	2.60	2.90	3.70	4.00	4.70	5.50	6.70	9.40	11.40	13.80
" " 5	2.60	2.80	3.00	3.90	4.20	4.90	5.90	7.30	10.00	12.80	14.60
" " 6	2.80	2.90	3.20	4.10	4.50	5.10	6.50	7.70	10.80	13.20	15.50
" " 8	3.00	3.20	3.50	4.30	4.80	5.80	7.30	8.80	12.20	15.20	18.00

PILLAR, PILLAR NARROW, PILLAR EXTRA NARROW, 2 SAFE EDGES.

Inch	3	3½	4	4½	5	6	7	8	10	12
Cut No. 00 & 0	2.10	2.30	2.60	3.40	3.90	4.10	4.60	5.90	8.00	10.20
" " 1 " 2										
" " 3 " 4	2.20	2.40	2.70	3.50	4.00	4.20	4.70	6.00	8.30	11.00
" " 5 " 6	2.30	2.50	2.80	3.60	4.10	4.30	4.80	6.30	8.50	12.80
" " 8	2.40	2.60	3.10	3.90	4.30	4.50	5.10	6.60	9.00	14.50

Inches	2	2½	3	3½	4	4½	5	6	7	8	10	12	14
Width in Decimal parts of an inch stated as near as practicable. Hand	.33	.38	.43	.48	.53	.58	.63	.73	.81	.90	1.09	1.27	1.45
Pillar	.23	.26	.29	.33	.35	.38	.42	.48	.54	.60	.73	.85	
Pillar Narrow	.17	.19	.22	.24	.27	.29	.31	.36	.41	.45	.55	.64	
Pillar Ex. Narrow	.12	.13	.14	.16	.18	.19	.21	.24	.27	.30	.36	.42	

Pillar, Pillar Narrow, and Pillar Extra Narrow, with one or both edges cut, take same List Price as with two safe edges.

Inch	3	3½	4	4½	5	6	7	8	10	12
Three Sq're Metal Saw (All Cuts)	2.40	2.50	2.80	3.50	3.80	4.20	5.30	6.30	7.70	9.80
Knife	2.40	2.50	2.90	3.60	4.00	4.90	5.80	6.70	9.50	11.40
Warding	2.20	2.30	2.80	3.50	3.80	4.50	5.40	5.90	6.90	9.00
Equaling	2.20	2.30	2.70	3.50	3.90	4.30	5.50	6.30	9.00	10.80
Slitting	2.30	2.50	2.90	3.60	3.90	4.40	5.60	6.40	9.20	11.00
Half Round	2.30	2.30	2.80	3.60	4.00	4.80	5.90	6.80	9.60	11.50
Crossing	2.30	2.40	2.90	3.60	4.00	4.80	6.00	6.90	9.60	11.50
Barrette	2.30	2.30	2.80	3.60	3.90	4.40	5.50	5.90	6.90	8.00
Square	1.80	1.90	2.10	2.80	3.00	3.50	4.80	5.80	6.90	7.90
Round	1.60	1.70	2.00	2.70	2.90	3.40	4.70	5.50	6.90	7.80
" Straight	1.70	1.80	2.20	2.80	3.20	3.60	5.00	6.00		
Broach	From Gauge 40 to 65 inclusive, $1.40 per dozen.									

Inch	3	3½	4	4½	5	6	7	8	10
Barrette, Cut all Sides	2.40	2.60	3.10	3.80	4.10	4.70			
Cant "									
Crochet, All Cuts	2.10	2.30	2.80	3.60	3.80	4.20	4.40	4.60	6.80
Drill or Joint "	1.80	1.90	2.10	2.80	3.00	3.80	3.70	4.20	
Round or Sq're Edge "									
Thickness of Drill or Joint: Thin	.02	.03	.04	.05	.06	.08	.09	.10	
Thick	.06	.07	.08	.09	.10	.12	.13	.14	

Pivot Files or Burnishers: 2½" with tang	3.00	Screw Head 3" with Tang	2.30	Die Sinkers 3½ inch, 12 in a Set	2.00
" " handle	4.00	Plain or without Tang	2.00		
" Double	6.00	Ratchet 3"	2.00		

Right and Left Cut in either Sharp or Conical Corners. Assorted Shapes.

NEEDLE FILES.

Round Handle	10 c-m or 4 inch	1.20 per doz.	Of the following twelve varieties, viz.: Round, Half-Round, Flat, Oval, Knife, Square, 3 Square, Equaling, Slitting, Joint, Barrette, and Marking, (if Round Handle) or Half Round Blunt (if Square Handle).
	12 c-m or 4½ "	1.40 "	
	14 c-m or 5½ "	1.60 "	
	16 c-m or 6½ "	1.80 "	
Square Handle or Escapement	14 c-m or 5½ "	2.00 "	

Put up in Dozens, either assorted (one of each kind) or in kinds.
Assorted Dozens will always be sent when order does not state otherwise.

MANICURE FILES.

Double End Nail, 3 inch	5.00	Knife Nail, Blade Tip Handled	9.00
" " " 4 "	6.00	Curved Nail, Cleaner Point	8.00
" " " 5 "	7.00	Handled " " "	9.00
Knife Nail	7.00	Corn Knife	7.00
" " Cleaner Point	8.00	" " Curved, Handled	7.00

TOOLS AND SPECIALTIES.

FILE HANDLES.

SPUN FERRULED.		STRAIGHT FERRULED.	
No. 1	.75 per doz.	No. 11	.55 per doz.
" 2	.70 " "	" 12	.50 " "
" 3	.65 " "	" 13	.45 " "
" 4	.60 " "	" 14	.40 " "
" 5	.55 " "	" 15	.35 " "

PATENT FILE HOLDERS.

Surface Holder . . . . . No. 4, 1.00; No. 5, 1.25 each.
Stub Files and Holder, Set of 6 Files, assorted . . Price per set, 5.00; Extra Files, .30 "

Bent Rifflers, Handled, Set of 6, assorted shapes 2.50
Machinist Scrapers, Handled, Set of 6, assorted shapes 2.25
Roller Files, per doz., 3.75. Jig (or Fisherman's) Rasps 1.75

FILE CLEANERS.

File Card, with Scorer . . . . . 2.50 per doz.
File Brush, with Card and Scorer . . . . . 4.40 " "

HORSE MOUTH RASPS.

Long Handle, Plain. 13.00 per doz. Nickeled . . . . . 20.00 per doz.
Jointed, Nickeled . . . . . 27.00 " "

BUTCHERS' STEELS.

Patent, 10 inch . 7.50; 12 inch . 9.40; 14 inch . 11.25 per doz.
Regular, 10 " . 6.25; 12 " . 8.10; 14 " . 10.00 " "

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Review of the Markets.

There is no great amount of activity noticeable in the trade, with the exception of that needed to bring to a conclusion the inventory so essential to establish results.

The "boys" are, all of them, at home preparing new outfits of sample cases and sample trunks filled with standard goods and many novelties that have yet to be shown the trade. They will sally forth to meet their customers with every confidence of reaping good results. Prices, if anything, are as low at present, as they are likely to be at any time this season. The only trouble will be to get the goods wanted on time for the season's trade, for but few of the manufacturers of leading lines of goods for Spring trade will have a stock ready for early delivery at all commensurate to the possible demand.

The travelers will find this year, more than ever before, trade is getting closer together.

The various State associations, wholesale as well as retail, are composed of a class of dealers the brightest and most intelligent in the industry, and a word or two at a monthly meeting could induce the giving of an order or the "turning down" of a traveler, should there be any occasion to question the honesty of purpose or directness of statement, that should be the travelers' best credentials. Let us hope the dealers will be found as having had a fairly good year, not entirely unprofitable, with fresh hopes for the future, and faith in the fruitfulness of persistent effort based on intelligent methods.

Wire Nails: The feeling among the wire nail mills is that the trade at present is fairly well supplied, having freely purchased during December, the output being in a few mills the most phenomenal of the year. The demand at present is consequently extremely light, and with the mills closed as they are for the usual two weeks' overhauling and repairs, stocks amount to very little and prices are very steady. For early delivery only, manufacturers will accept orders at $1.45 base, f.o.b. mill. New York quotations are: $1.60 for carload lots on dock and the usual advance for smaller lots from store.

Cut Nails: Trade in cut nails is at present very limited in character. Although stocks are not unusually heavy, the demand at this season of the year is especially limited. New York prices are: For carload lots on dock, $1.25; smaller lots from store, $1.35.

The revised prices in the screw market have been very favorably received by the trade as indicating a condition of affairs that would be welcomed all around. All the leading manufacturers have been heard from, and concert of action is assured. There have been no speculative purchases so far, as the season is young and the taking of inventories but recently concluded, but a number of satisfactory orders have been booked at recent quotations for the ordinary wants of a jobbing stock up to April 1st.

Machine Screws: Revised lists and discounts on machine screws have been agreed upon by the leading makers of these goods, as received from the American Screw Co., Providence, R. I., and are subject to the following discounts for either iron or brass: Round head machine screws, 60 per cent., flat head machine screws, 60 per cent; fillister head machine screws, 60 per cent.

Swiss Pattern X F Files: The Nicholson File Co., Providence, R. I., have recently issued a revised price list of their Swiss pattern files, tools and specialties. We give it in *fac simile* on another page. This new list is subject to a discount of from 30 to 30 and 10 per cent.

Window Glass: The American Glass Co., representing the Associated Manufacturers of Window Glass, have adopted, under date of January 1, 1898, the following official list. Several changes in the bracketed signs have been made, and on a number of the smaller sizes it will be found that the net prices are higher than the French glass list in use since last September.

The discounts for the largest quantities have been established, as follows: Interior points of distribution, 5000 boxes or over, 85 and 20 per cent; carload lots, 85 and 15 per cent. The prices for smaller quantities, to be sold by the jobbers, are not yet established, but will be given at an early date:

United inches.	Sizes.		Single. 1st,	2d.	3d.	4th.	Double. 1st.	2d.	3d.
25	6x 8	to 10x15	$17.50	$16.25	$15.50	$15.00	$23.50	$22 00	$21.00
34	11x14 12x13	" 14x20	20.00	18.50	17.25	16.50	28.50	26.25	24.50
40	10x26	" 16x24	22.00	20.00	18.50	17.75	31.25	28.50	26 25
50	18x22 20x20	" 20x30	25.00	23.00	21.00	.....	34.50	31.75	28.75
54	15x36	" 24x30	27.00	24.50	22.00	.....	36.50	33.75	30.50
60	26x28	" 24x36	30.00	26.75	24.00	.....	41.00	37.25	33.75
70	26x34 28x32 30x30	" 30x40	33.50	30.50	27.00	.....	47.00	42.75	38.00
80	32x38 34x36	" 30x50	40.00	36.50	32.00	.....	55 00	50.50	45.50
84	30x52	" 30x54	41 25	37.50	33.75	.....	57.00	51.75	46.50
90	30x56	" 34x56	.....	.....	.....	.....	59.50	54.00	48.50
94	34x58	" 34x60	.....	.....	.....	.....	63.00	57.50	52.00
100	36x60	" 40x60	.....	.....	.....	.....	66.50	60.50	55 00

Sizes above 100 inches, $10 per box extra for every five inches.

An additional 10 per cent. will be charged for all glass more than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will be charged in the 84 united inches bracket.

Cordage: Changes have been made since our previous issue in the prices of sisal and manila rope, which constitute an advance of ½ cent a pound, the prices given being for less than carload lots, as follows:

Sisal, 7-16 inch and larger	Per pound,	5½ cents.
" ⅜ inch	"	6 "
" ¼ and 5-16 inch	"	6½ "
Manila, 7-16 inch and larger	"	6½ "
" ⅜ inch	"	7 "
" ¼ and 5-16 inch	"	7½ "

Lead Pipe, Sheet Lead, etc.: Among the metals, lead at the present time is in such favorable condition that the manufacturers, under date of January 3, announce the following revised quotations:

Lead Pipe	per pound,	5½ cents.
Sheet Lead	"	6½ "
Tin Lined Lead Pipe	"	12½ "
Block Tin Pipe	"	30 "

Screws: The Boston Screw Co., Fitchburg, Mass., make the following announcement:

In accordance with the unanimous sentiment of the screw manufacturers at a recent meeting, in regard to prices and to the welfare of all mankind interested in the sale of wood screws, we quote:

Flat Head, Iron	87½&10%
Round Head, Iron	85%
Oval Head, Iron	85%

Net cash, 30 days. Usual freight allowance. Prices subject to change without notice. BOSTON SCREW CO.

Under date of January 1, 1898, the American Screw Co., in the following discount sheet, confirm discounts previously agreed upon on wood screws, and call attention to changes in discounts on machine screws and rivets, new lists of machine screws, dated January 1, 1898, being given to the trade at the same time. All discounts named are subject to change without notice:

WOOD SCREWS.

	Description.	Disc't.
Iron.	Bright, Flat H'd, Cut	87&½&10%
"	" " Forged	87½&10%
"	" Round and Oval Head,	85%
"	Drive	90%
"	Blued, Flat Head (add 5 per cent. to net amount of invoice)	87½&10%
"	Blued, Round Head	85%
"	Felloe, Flat Head	
"	Pinched Head	
"	Japanned, Flat Head	85%
"	" Round Head	
"	Tinned, Flat Head	
"	" Round Head	
"	Lacquered, Flat Head	
"	" Round Head	
"	Bronzed, Flat Head	
"	" Round Head	
"	Brass-Plated, Flat Head,	
"	" Round Head.	
"	Copper-Plated, Flat Head,	
"	" Round Head.	
"	Nickel-Plated, Flat Head, Burnished	
Iron.	Nickel-Plated, Round H'd, Burnished	
"	Silver-Plated, Flat Head.	
"	" Round Head.	
Brass.	Flat Head	87½&10%
"	Round and Oval Head	85%
"	Lacquered, Flat Head	
"	" Round Head	
"	Bronzed, Flat Head	
"	" Round Head	
"	Silver-Plated, Flat Head, Burnished	
"	Silver-Plated, Round H'd Burnished	
"	Nickel-Plated, Flat Head, Burnished	
"	Nickel-Plated, Round H'd, Burnished	
Copper.	Flat Head	
"	Round Head	
Bronze.	Flat Head	85&10%
"	Round and Oval Head	85%
Phosphor Bronze.	Flat Head	
"	" Round Head	
For Export.	Flat Head Iron	90%

On items where discount is not given, quotations will be submitted on application stating quantity and assortment required. Terms, cash 30 days, delivery f.o.b. wharf or depot in Providence. Freight paid, on shipments

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of over 100 pounds, to all points to which the rate does not exceed 50 cents per 100 pounds. Discounts subject to change without notice.

MISCELLANEOUS GOODS.

Description.	Disc't.
Machine Screws.	
Iron, Flat Head	60%
" Round Head	60%
" Fillister Head	50%
Brass, Flat Head	60%
" Round Head	60%
" Fillister Head	50%
Milled Machine Screws	
Cap Screws, for Locks, Iron, blued,	85%
Side Knob Screws, Iron, blued	85%
" " Brass and Bronze	85%
Taps, for Machine Screws	70%
Tire Bolts, Norway Philadelphia	80%
" Eagle Philadelphia	85%
" Bay State, Plain	75&10%
" " " Fluted.	75&10%
Sleigh Shoe Bolts	85%
Stove Bolts, Flat Head	75&10%
" " Annealed.	75&10%
" Round Head	75&10%
Stove Rods	75&10%
Sink Bolts	75&10%
Coach Screws	82½%

Description.	Disc't.
Rivets.	
Norway, Ordinary, in Bulk.	80%
Thousand, in Bulk	80&5%
Thousand, in Papers	80&5%
Coopers, in Bulk	80%
Block and Carriage, in Papers of 100	80%
Hame	80%
Belt, with Burrs, Tinned or Coppered	75%
Burrs, for Rivets	75&10%
Hand Rail Screws	82½%
Dowel Screws	85%
Winged Screws	85%
Pointed Wires	80%
Tapped Nuts	
Standard Penny Wire Nails	
Dowel Pins, Barbed and Plain	
Miscellaneous Wire Nails.	
1, 5 and 10 lb. Packages	87½%
25 and 50 lb. Packages and 100 lb. Kegs	87½%
Special Goods	

On items where discount is not given, quotations will be submitted on application stating quantity and assortment required. Terms, cash 30 days, delivery, f.o.b. wharf or depot in Providence. Freight paid, except on Wire Nails, on shipments of over 100 pounds, to principal cities on or east of Mississippi River, where the rate does not exceed 50 cents per 100 pounds. Discounts subject to change without notice.

The new and revised lists of machine screws referred to are given herewith:

IRON MACHINE SCREWS.—(Flat, Round and Fillister Head.)

List of January 1, 1898. Price per Gross.

3-16 Inch			¼ inch			5-16 Inch			⅜ Inch			7-16 Inch			½ Inch			9 16 Inch		
No.		$	No.		$	No.		$	No.		$	No		$	No.		$	No.		$
2	@	.25	2	@	.25	2	@	.27	2	@	.27	2	@	.29	2	@	.29	2	@	.33
3	"	.25	3	"	.25	3	"	.27	3	"	.27	3	"	.29	3	"	.29	3	"	.33
4	"	.25	4	"	.25	4	"	.27	4	"	.27	4	"	.29	4	"	.29	4	"	.33
5	"	.29	5	"	.29	5	"	.31	5	"	.31	5	"	.33	5	"	.33	5	"	.36
6	"	.29	6	"	.29	6	"	.31	6	"	.31	6	"	.33	6	"	.33	6	"	.36
			7	"	.35	7	"	.38	7	"	.38	7	"	.41	7	"	.41	7	"	.46
			8	"	.35	8	"	.38	8	"	.38	8	"	.41	8	"	.41	8	"	.46
			9	"	.43	9	"	.46	9	"	.46	9	"	.49	9	"	.49	9	"	.54
			10	"	.43	10	"	.46	10	"	.46	10	"	.49	10	"	.49	10	"	.54
									12	"	.59	12	"	.59	12	"	.59	12	"	.66
									14	"	.74	14	"	.74	14	"	.74	14	"	.81
									16	"	.95	16	"	.95	16	"	.95	16	"	1.00
															18	"	1.10	18	"	1.15
															20	"	1.25	20	"	1.35
															22	"	1.45	22	"	1.65
															24	"	1.70	24	"	1.90

⅝ Inch			¾ Inch			⅞ Inch			1 Inch			1⅛ Inch			1 ¼ Inch			1⅜ Inch		
No		$	No.		$	No.		$	No.		$	No.		$	No.		$	No.		$
3	@	.33	4	@	.37	5	@	.48	6	@	.55	7	@	.85	7	@	.85	9	@	1.35
4	"	.33	5	"	.42	6	"	.48	7	"	.70	8	"	.85	8	"	.85	10	"	1.35
5	"	.36	6	"	.42	7	"	.60	8	"	.70	9	"	1.05	9	"	1.05	12	"	1.60
6	"	.36	7	"	.52	8	"	.60	9	"	.85	10	"	1.05	10	"	1.05	14	"	1.80
7	"	.46	8	"	.52	9	"	.72	10	"	.85	12	"	1.25	12	"	1.25	16	"	2.00
8	"	.46	9	"	.63	10	"	.72	12	"	.97	14	"	1.45	14	"	1.45	18	"	2.20
9	"	.54	10	"	.63	12	"	.85	14	"	1.15	16	"	1.65	16	"	1.65	20	"	2.50
10	"	.54	12	"	.74	14	"	1.00	16	"	1.35	18	"	1.85	18	"	1.85	22	"	3.00
12	"	.66	14	"	.88	16	"	1.20	18	"	1.55	20	"	2.10	20	"	2.10	24	"	3.60
14	"	.81	16	"	1.10	18	"	1.40	20	"	1.80	22	"	2.50	22	"	2.50	26	"	4.30
16	"	1.00	18	"	1.30	20	"	1.65	22	"	2 10	24	"	3.00	24	"	3 00	28	"	5.10
18	"	1.15	20	"	1.55	22	"	1.90	24	"	2.55	26	"	3.60	26	"	3 50	30	"	6.00
20	"	1.35	22	"	1.75	24	"	2.20	26	"	3.10	28	"	4.35	28	"	4 35			
22	"	1.65	24	"	2.00	26	"	2.70	28	"	3 75	30	"	5.25	30	"	5.25			
24	"	1.90	26	"	2.45	28	"	3.30	30	"	4.50									

1½ Inch			1¾ Inch			2 Inch			2¼ Inch			2½ Inch			2¾ Inch			3 Inch		
No		$	No		$	No.		$	No.		$	No.		$	No.		$	No.		$
10	@	1.35	12	@	1.80	14	@	2.30	16	@	3 10	18	@	3.65	20	@	4.75	22	@	6.50
12	"	1.60	14	"	2.05	16	"	2.75	18	"	3.25	20	"	4.15	22	"	5.55	24	"	7.45
14	"	1.80	16	"	2.40	18	"	2.90	20	"	3.70	22	"	4 90	24	"	6.45	26	"	8.50
16	"	2.00	18	"	2.55	20	"	3.35	22	"	4.35	24	"	5.75	26	"	7.45	28	"	9.70
18	"	2.20	20	"	2.90	22	"	3 95	24	"	5.00	26	"	6.70	28	"	8.60	30	"	11 00
20	"	2.50	22	"	3.45	24	"	4.65	26	"	5.85	28	"	7.75	30	"	9.85			
22	"	3.00	24	"	4.10	26	"	5.45	28	"	6 90	30	"	8.90						
24	"	3 60	26	"	4.85	28	"	6.35	30	"	8.00									
26	"	4.30	28	"	5.70	30	"	7.35												
28	"	5.10	30	"	6.65															
30	"	6.00																		

Threads per Inch.

56	48	32, 36, 40	30, 32	24, 30, 32	20, 24	16, 18, 20	16, 18	14, 16
2	3	4, 5	6, 7, 8	9, 10	12, 14	16	18, 20, 22	24, 26, 28, 30

On Machine Screws differing from our regular Standards, special prices will be given on application.

BRASS MACHINE SCREWS.—(Flat, Round and Fillister Head.)

List of January 1, 1898. Price per Gross.

3-16 Inch			¼ Inch			5-16 Inch			⅜ Inch			7-16 Inch			½ Inch			9-16 Inch		
No.		$	No.		$	No.		$	No.		$	No.		$	No.		$	No.		$
2	@	.32	2	@	.32	2	@	.35	2	@	.35	2	@	.39	2	@	.39	2	@	.48
3	"	.32	3	"	.32	3	"	.35	3	"	.35	3	"	.39	3	"	.39	3	"	.48
4	"	.32	4	"	.32	4	"	.35	4	"	.35	4	"	.39	4	"	.39	4	"	.48
5	"	.40	5	"	.40	5	"	.43	5	"	.43	5	"	.48	5	"	.48	5	"	.57
6	"	.40	6	"	.40	6	"	.43	6	"	.43	6	"	.48	6	"	.48	6	"	.57
			7	"	58	7	"	.62	7	"	.62	7	"	.68	7	"	.68	7	"	.77
			8	"	.58	8	"	.62	8	"	.62	8	"	.68	8	"	.68	8	"	.77
			9	"	.86	9	"	.86	9	"	.86	9	"	.95	9	"	'95	9	"	1.05
			10	"	.86	10	"	.86	10	"	.86	10	"	.95	10	"	.05	10	"	1.05
												12	"	1 00	12	"	1.15	12	"	1.30
												14	"	1.55	14	"	1.70	14	"	1.90
												16	"	2.00	16	"	2.10	16	"	2.35
															18	"	3.00	18	"	3.25
															20	"	3.60	20	"	3.00
															22	"	4.60	22	"	4.90
															24	"	6.00	24	"	6.30

⅝ Inch			¾ Inch			⅞ Inch			1 Inch			1⅛ Inch			1¼ Inch			1⅜ Inch		
No.		$	No.		$	No.		$	No.		$	No.		$	No.		$	No.		$
3	@	.48	4	@	.60	5	@	.80	6	@	.90	7	@	1.50	8	@	1.50	8	@	1.50
4	"	.48	5	"	.70	6	"	.80	7	"	1.20	8	"	1 90	9	"	1.90	9	"	1.90
5	"	.57	6	"	.70	7	"	1.05	8	"	1.55	9	"	1.90	10	"	1.90	10	"	2.55
6	"	.57	7	"	.90	8	"	1.05	9	"	1.55	10	"	2.10	12	"	2.55	12	"	3.10
7	"	.77	8	"	.90	9	"	1.35	10	"	1.55	12	"	2.60	14	"	3.10	14	"	3.70
8	"	.77	9	"	1.15	10	"	1.35	12	"	1.80	14	"	3.20	16	"	3.70	16	"	4 50
9	"	1.05	10	"	1.15	12	"	1.80	14	"	2.30	16	"	4.00	18	"	4 50	18	"	5.00
10	"	1.05	12	"	1.50	14	"	2.30	16	"	2.90	18	"	4.50	20	"	5.00	20	"	6.00
12	"	1.30	14	"	2.10	16	"	2.90	18	"	3.75	20	"	5.20	22	"	6.00	22	"	7.75
14	"	1.90	16	"	2.60	18	"	3.75	20	"	4.70	22	"	6.70	24	"	7.75	24	"	9.90
16	"	2.35	18	"	3 50	20	"	4.70	22	"	5.95	24	"	8 50	26	"	9.00	26	"	12.45
18	"	3.25	20	"	4.30	22	"	5.40	24	"	6.70	26	"	10.60	28	"	13 00	28	"	15.40
20	"	3.00	22	"	5.40	24	"	6.70	26	"	8.10	28	"	11.25	30	"	15.75	30	"	18.75
22	"	4.90	24	"	6.70	26	"	8.10												
24	"	6.30	26	"	8.10															

1½ Inch			1¾ Inch			2 Inch			2¼ Inch			2½ Inch			2¾ Inch			3 Inch		
No.		$	No.		$	No.		$	No.		$	No.		$	No.		$	No.		$
10	@	2.50	12	@	3.50	14	@	4.90	16	@	6.65	18	@	9.00	20	@	12.00	22	@	16.00
12	"	3.00	14	"	4.15	16	"	5.75	18	"	7.50	20	"	10.50	22	"	14.00	24	"	19.00
14	"	3.60	16	"	5.00	18	"	6.50	20	"	9.25	22	"	12.50	24	"	17.00	26	"	24.10
16	"	4.30	15	"	5.50	20	"	8 25	22	"	11.80	24	"	15.50	26	"	21.80	28	"	29 70
18	"	5 00	20	"	7.50	22	"	10.60	24	"	14.95	26	"	19.80	28	"	27.50	30	"	36.00
20	"	6.80	22	"	9.85	24	"	13.55	26	"	18.70	28	"	25.35	30	"	33.00			
22	"	8.90	24	"	12.70	26	"	17.10	28	"	23.05	30	"	30.50						
24	"	11.55	26	"	16 05	28	"	21.80	30	"	28.00									
26	"	14.70	28	"	20.40	30	"	26.00												
28	"	18.35	30	"	24.25															
30	"	22.50																		

Threads per Inch.

56	48	32, 36, 40	30, 32	24, 30, 32	20, 24	16, 18, 20	16, 18	14, 16
2	3	4, 5	6, 7, 8	9, 10	12, 14	16	18, 20, 22	24, 26, 28, 30

On Machine Screws differing from our regular Standards, special prices will be given on,application.

THE DAVENPORT TRADE.

A remarkable business year has just closed. Depression and almost despondency marked its beginning; later, returning confidence brought hopes which were fulfilled in a prosperous ending. Money was lost the first four months; expenses barely paid the next, but a net gain was realized during the last four months of the year.

The Hardware trade of 1897 was compelled to stand or fall on a legitimate business basis. No sudden advances in staple goods occurred to swell the profits which have so often happened in many of the preceding years. Prices remained steady during the year, giving the Hardware dealer an opportunity of knowing for once whether the regular profits received were sufficient to pay large and constantly increasing expense accounts for the use of capital employed, and a fair salary for his own work.

When the year's annual inventories are completed, a fair allowance for shopworn and slow-selling goods is made, a liberal deduction allowed for the doubtful accounts, the balance will be on the right side of the ledgers of only conservative jobbers who have not depended upon successful speculation for their net earnings.



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It is no longer safe to await the result of an annual inventory to know the result of a year's business. The prudent dealer should keep a daily sales sheet, showing each night the amount of goods sold, how and by whom the sales were made, and what the gross profits for the day have been. With this sheet in hand, knowing the average daily expenses, the net result is shown.

December sales were much larger than usual. Collections satisfactory. SICKELS, PRESTON & NUTTING CO.

THE BOSTON TRADE.

The year closes with everybody finishing or preparing to take their annual inventory. What the results will be are to a certain extent problematical, and yet there exists a feeling that the profit side of the ledger will not be in the nature of an agreeable surprise.

The year just closed has been somewhat of a disappointment as regards the industrial conditions of New England, as it was expected with a new administration the depression of previous years would vanish and we should enter an era of prosperity. We now acknowledge that an immediate return to prosperity would have been nothing short of a miracle, and we realize after so long a period of depression that it would be impossible to expect a prompt revival of business.

We are glad to note that the conditions are different from what they were one year ago, and can say with all sincerity that we have never seen more unmistakable signs of better times for the future than now exist. There are few, if any, clouds, to threaten the growth of New England prosperity, and we firmly believe that this is the beginning of a turn toward a term of years of more confidence and better business.

We only hope with this improvement in general industries may come an improvement in business methods whereby the manufacturer, jobber and retailer may receive a better return for their investments.

FRYE, PHIPPS & CO.

THE PITTSBURG TRADE.

Inventory methods are so greatly improved of late years, that we are able to write out the stock and get it ready for pricing and calculation, within four or five days, which under the old plan took as many weeks. Results are, of course, as yet uncertain, but some things we know. Values in general are the lowest yet made, and it takes a very large quantity of goods to amount to much money. The widea wake merchant will not try to deceive himself by anything else but actual cash value of his stock, for he must sell in competition with those who so value their goods. Stocks of imported cutlery and guns may safely be taken, however, at the present advanced cost, as it is not likely they can be bought lower in 1898. We are glad to see the stiffening tendency in some items, such as screws and manilla rope, which seem to be a natural advance. We cannot look for a large general advance, but if we can be sure that bottom has been reached, and that where goods are abnormally low, a living margin for the makers will be allowed, merchants generally will rejoice at the new order of things. Our mills report very heavy December business done, with many inquiries and offers to place orders for the new year. LOGAN-GREGG HARDWARE CO.

THE COLUMBUS TRADE.

We are in the midst of our annual inventory, and hope the showing will be a good one for our labors of 1897. This vicinity is having winter too late to benefit trade much. Had the snow come three weeks ago it would have made a big difference in the sales of skates, sleds, blankets, etc., but as we do not make the weather, we take it as it comes, just the same as they do out West.

There is a "Hot Time in the Old Town" just now. Some sore heads are trying to defeat the Republican party's choice for United States Senator. We do not think it can be done. "Mark" that.

We have not received notices of many changes in prices so far, but it is a little early, Registers are higher, and several manufacturers of screws have advanced prices. The wire and nail situation is the same as it has been for some weeks. Rope has advanced one-half cent per pound in the last sixty days. We hope there will not be any radical change in prices. SMITH BROS. HARDWARE CO.

John C. Hagan & Co., Manchester, Va., have dispatched to their friends in various parts of the country a *fac simile* of a very patient and long-suffering friend of humanity, upon the back of which is a little basket containing some very interesting information in regard to Hagan's Bull Dog Lace Leather. The company say: "You know what the characteristics of the bull dog are—well, we are producing a Lace Leather that stands to other leathers as the bull dog to other dogs. You may think the braying animal on this card is tough, and, as a rule, he is, but you may be certain of one thing—if you tackle him, you'll have kicks coming—well, that's what you won't have by using our Bull Dog Leather, it simply grips and grips, and never lets go."

Patterson, Harral & Gray, No. 85 Chambers Street, this city, intend fitting up the front portion of their store in a very handsome and elaborate manner, with the view of renting it to someone who may be desirous of having office and salesroom in the most convenient and eligible part of Chambers Street. Judging from an inspection of the plans governing the changes to take place, the premises will not long be without a first-class occupant.

OUR NEW GARDEN HOSE BOOKLET

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

Is ready. It gives a full description of our '98 line—eight grades of Rubber Hose and two of Cotton, ranging from the finest hose we know how to make, down to a good, serviceable article at a low price. **The booklet is the handsomest we have ever issued, and is a capital advertising medium for customers handling our line.** We will be pleased to furnish our friends with as many booklets as they can use. Call or write for them, and also for hose samples and prices at any of our stores.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St
Philadelphia ..308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

OILERS

25c. 10c.



Highest Grade Oiler.

DOES NOT LEAK.

Regulates supply of oil.

A little higher in price but,—



The Best Medium Grade Oiler.

Made in best manner possible.

Second to none but the "Perfect."

CUSHMAN & DENISON, Mfrs., 172 9th Ave., N. Y.

Important Injunction Suit.

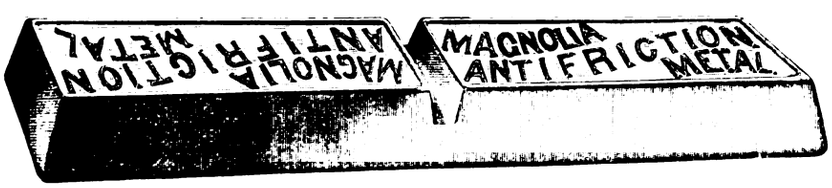
The Magnolia Metal Co., whose trade extends to every part of the United States and Canada and to every civilized country in the world, has during the last two or three years had numerous suits with parties infringing their trade marks and patents.

An injunction was granted on December 15, 1897, by Lord Chief Justice Russell in the Queen's Bench Division of the High Court of Justice, London, England, enjoining the Tandem Smelting Syndicate, Ltd., and restraining them from passing off their metal for Magnolia Metal, it being made up so as to counterfeit Magnolia Metal.

A few months ago, the Globe Engineering Co., Ltd., of Manchester (now in liquidation), shipped a quantity of metal to a firm in South Africa that had ordered Magnolia Metal. The metal sent to fill this order was made up into ingots as near as possible to represent the well-known ingots of Magnolia Anti-Friction Metal. They bore the words "Magnolia Anti-Friction Metal," but the trade mark, the Magnolia Flower, and the words "Patented June 3rd, 1890," were not imprinted upon them. The purchaser brought an action in the High Court of Justice, at the Manchester Assizes, against the sellers, and judgment was given in his favor by the arbitrator to whom the matter was referred.

The Magnolia Metal Co. has called our attention to the above and desires to warn the public, through our columns, against fraudulent imitations. The public are as much interested in getting straight goods as the manufacturers are in suppressing frauds.

The genuine Magnolia Anti-Friction Metal is made up into bars of which this is *fac simile:*



and the trade mark, which is also shown with this, and name are always stamped on bars and boxes; and, besides this, the words "patented June 3rd, 1890," and "manufactured in U. S." are stamped on the under side of each bar.



The Magnolia Flower Trade Mark is registered in every civilized country in the world.

The Magnolia Metal Co., of No. 266 West Street, New York, advise us that similar frauds are being committed in this country at this time, and they offer one thousand dollars reward to any party causing the arrest and conviction of any individual or firm infringing their trade marks or patents.

A. L. Deane & Co., Nos. 501–503 Sixteenth Street, Denver, Col., are placing upon the market the Lightning Repair Tool, an illustration of which in its various parts may be found upon page 37 of this issue. This tool is used in the repair of any single-tube tire, and the manufacturers guarantee that any ordinary puncture can be permanently repaired, in less than one minute. The illustration shown is the exact size of the tool, and the price for tool and one tube of cement put up in a neat box, is but 40 cents. The Lightning Solution is itself a special mixture, and will be furnished by Deane & Co either in bulk or in tubes. Prices for the same will be furnished upon application. The makers inform us that this article has met with great success, and that they have introduced it in all parts of the country.

The longest commercial distance at which the long-distance telephone is now operated is from Boston to St. Louis, a distance of 1400 miles. This line is more than twice as long as any European telephone line.—*Electrical Age.*

STUBS' TOOLS.

FRENCH FILES & RASPS.

S. J. ADDIS' LONDON CARVING TOOLS.

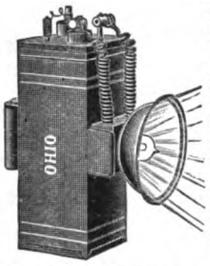
HAMMACHER, SCHLEMMER & CO.

DIRECT IMPORTERS

209 BOWERY NEW YORK.

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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



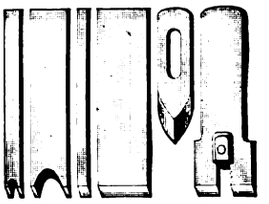
Bicycle Elec. Lights	$4.0
Necktie Elec. Lights	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

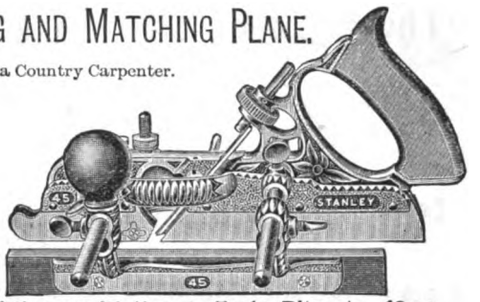
Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. Catalogues free.

OHIO ELECTRIC WORKS, CLEVELAND, O.

STANLEY'S ADJUSTABLE
BEADING, RABBET, SLITTING AND MATCHING PLANE.
"A Planing Mill within itself,"—says a Country Carpenter.





No. 45. Nickel Plated Stock and Fence, with Twenty Tools, Bits, etc., $8.00
SOLD BY ALL HARDWARE DEALERS.

"Your Silent Salesmen."

Nothing ever comes in the way of printed matter from the New York Belting & Packing Co., New York, that is not artistic, and filled with information, ably condensed and yet saying all that is to be said. This holds especially true of a small publication which this company have just issued, headed "Garden Hose," in which their well-known lines are presented in colors with full descriptions, and in which also are found the several articles connected with hose and the use of the same, which they manufacture, among which are hose fittings, hose pipes, Gem sprinklers, Boss sprinklers, Rose sprinklers, and hose reels. The lines of hose shown are the 1846 Para, Tuxedo, Double Diamond, Puritan, Oxford, Carbon, Comet, Spider, Double Diamond cotton hose and Spider cotton hose. In a note of introduction under the heading "Your Silent Salesmen," the company say: "Suppose you were able to follow your customers into their homes, and, without intruding, say a good word for yourself—would that help your business? Suppose these home salesmen talked against you all the time—would that injure your business? Perhaps you don't realize it, but one or the other of these salesmen is talking about you now. Every length of Garden Hose you sell is working for or against you, according to its quality. If the hose is the right kind—strong and lasting—every time it's used you are pleasantly remembered Unconsciously the impression soaks into the household that you are a safe man to buy from—not only in hose, but everything in your line. Poor, cheap hose makes exactly the opposite impression. You can't select a surer way to drive customers from your door than sell them a length of cheap hose. Can you afford to advertise your store as a good place to buy leaks and bursts, and other kinds of trouble? Every length of our hose is a trade maker, working silently and steadily in somebody's interest—yours, if you sell it. There are ten grades. and every one a good honest worker—rubber the finest, duck the strongest. On the following pages each grade is described in detail. It will give us pleasure to furnish further information, samples and prices."

Bowling at the Sportsmen' Shows.

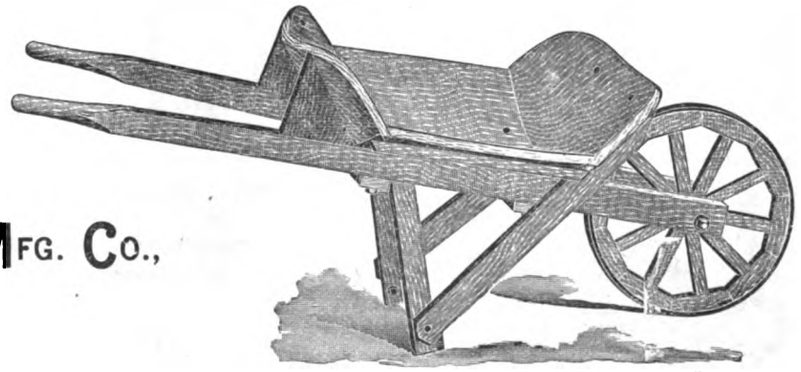
Probably the happiest mortals in Greater New York and vicinity are the bowlers and those who love the game, because they are to receive recognition at the Sportsmen's Exposition to be held at Madison Square Garden, from January 13th to 22nd inclusive. This feeling, however, is not confined solely to local knights of the wooden sphere. Those who twirl the ball on alleys in other cities are much interested in the many competitions to be decided at the Sportsmen's Association Bowling Tournament. Samuel Karpf, secretary of the American Bowling Congress and other important bowling organizations, who is in charge of the affair, has received numerous letters from bowling clubs in Boston, New Haven, Buffalo, Columbus, Dayton, Cincinnati, Toledo, Chicago, Detroit and other cities, stating that they will send their best bowlers to take part in the competition, which is hoped to produce the individual headpin champion of the United States. This contest will be open to all, and the lucky individual will receive the handsome Brunswick-Balke Collender Co.'s trophy emblematic of the championship.

The bowlers who have been selected to battle for the championship of Greater New York are hard at work on the various alleys in this vicinity, and the winner will have to do some tall bowling. The cream of the bowling talent have been selected for this competition. Games will be rolled every afternoon from 3 to 4:30, and evenings from 8:30 to 10 o'clock.

The stove salesmen of Philadelphia have effected an organization to be known as the North Second Street Stove Salesmen Association. The officers are: President, Harry E. Borzell; vice-president, William F. Habicht; secretary, W. G. Withers; treasurer, Horace Tyson.

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.



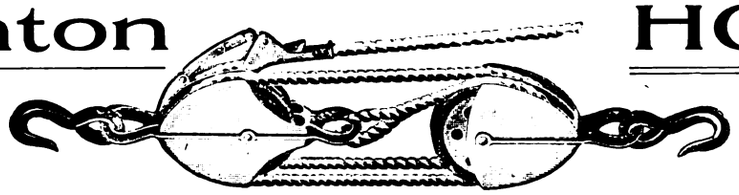
THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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The Canton HOIST



Can be used perpendicularly, horizontally, and at any angle in factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics.

MANUFACTURED BY THE NEY MFG. CO, CANTON, OHIO.

Simmons Hardware Co's Changes.

At the recent annual meeting of the stockholders of the Simmons Hardware Co., St. Louis, Mo., the following gentlemen were elected officers: President, Wallace D. Simmons; first vice-president, J. E. Pilcher; second vice-president, H. M. Meier; third vice-president, J. E. Smith; fourth vice-president, S. Norvell; traffic manager, F. N. Johnson; treasurer, A. E. Dann; assistant treasurer, G. R. Barclay; secretary, A. W. Douglas; assistant secretary, E. H. Simmons; advisory board, E. C. Simmons and I. W. Morton.

The retirement of E. C. Simmons from the presidency of this company will attract considerable attention. While giving up the active duties of president, Mr. Simmons will still remain associated as a member of the advisory board. The gentlemen into whose hands the management now falls are men long connected with the company, and the general policy and detailed work pursued in the past will in all probability be continued in the future. The new president, Wallace D. Simmons, is the eldest son of E. C. Simmons. He is a graduate of Yale, and has been actively connected with the company for the past six years. Mr. Pilcher has been with the house for a quarter of a century, and is conversant with every detail of the business.

BALDWIN REFRIGERATORS.



New.
Neat.
Natty.

The Line That Sells.

125 Styles.

Popular Goods.
Popular Prices.

70 Years in the business.
Send for Catalogue G.

BALDWIN REFRIGERATOR CO.,
BURLINGTON, VERMONT.

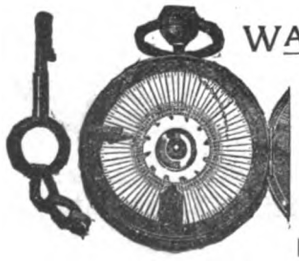
We learn from a Reading, Pa., exchange, that the recent meeting of the representatives of the Reading Hardware Co., for the purpose of discussing the outlook for business for 1898, was a very successful annual gathering. The company were represented by the following: Orton Hill, Lowell, Mass.; W. H. Bennett, Chicago; Ira. L. Gifford, Kansas City; Fred. L. Stellwagen, New York; F. B. Hendrickson, Philadelphia; R. P. Boyd, Knoxville, Tenn., and I. M. Rhoads, Meadville, Pa. Mr. Hill, representative in the New England States, has been employed as a salesman for the company 22 years, and has traveled in every State in the Union. In 1894 he made an extended trip through Europe. Mr. Gifford, who represents the company in the extreme Southwest and West, reports business improving wonderfully. Most of the salesmen said the outlook was exceedingly bright, and that business has gradually advanced during the past year.

The Hardware and iron dealers of Baltimore, Md., have followed in the steps of their brethren elsewhere, having met and organized an association to be known as the Hardware & Iron Dealers Association of Baltimore City. The following officers were elected for one year: Jacob Wolf, president; Louis Schaefer, vice president; W. Wyeth, secretary; E. Scott Payne, treasurer. The object is the protection of the dealers. A committee consisting of the officers was appointed to draft a constitution and by-laws, to be submitted at a meeting to be held at the same place on January 7th.

HARDWARE'S "Prices Current" are reliable.

Situation Wanted.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York, in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.



HAHN'S LATEST IMPROVED
WATCHMANS' TIME DETECTOR,
WITH SAFETY LOCK ATTACHMENT.
Highest Award at Columbian Exposition.

This Clock is neat, thoroughly reliable and very durable. Cannot be tampered with. Price moderate. Is adapted for six or twelve stations, having a different key for each. Registering is done by number from 1 to 6 and 1 to 12, each station having its number. No chance for a fraudulent record here. Old style detectors mark by holes or an impression on dial, the same for all stations. Allowance made for old Detectors. Send for circulars, prices and further particulars.

NANZ & CO., 116 CHAMBERS STREET, NEW YORK.

"PRODUCTIVE OF RESULTS."

Pope Mfg. Co., Hartford, Conn. [*Bicycles*]: While little advertising seems to be necessary this year to sell Columbia Bicycles, we still feel that our advertising with you is productive of results.

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GREAT WESTERN FILES.



REASON,

A plant that is larger and more completely equipped with machinery and appliances, that employs more skilled labor, and that is managed by the best reputed file concern in existence, necessarily turns out a product that is better than the product of a smaller factory not so favored.

——We call this good logic.——

Best Steel; **Thorough Temper;**



Sharp Teeth; **Durable.**

SUPPORTED BY FACTS,

The Great Western File Works are next to the Nicholson Works, the largest and most completely equipped file and rasp works in the world, and they are managed by the greatest and best reputed file concern in existence, the Nicholson File Co., Providence, R. I., U. S. A.

——These facts are indisputable.——

MAKES A CONVINCING CONCLUSION.

GREAT WESTERN FILES ARE SUPERIOR TO THE OTHER SO-CALLED IMPROVED FILES SOLD AT EQUAL PRICES.

——Try them and prove it, as others have done.——



GREAT WESTERN FILES.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Charleston, S. C.—H. McGee Sanders has opened new Hardware store at No. 757 King Street.

Gilroy, Cal. — The Robinson Hardware Co. has been organized by Amos Robinson, Herbert E. Robinson, Matilda Robinson, Mrs. C. A. Hoxett and Valentine Grodhaus, for the purpose of owning and conducting a general Hardware, tinware, plumbing and manufacturing business. Capital stock, $30,000.

Grand Marais, Mich.—R. M. Hewitt, Hardware, will open new store.

Kansas City, Mo.—The Adams Stove & Hardware Co. has been incorporated by Lon Adams, E. N. Adams and Louis Adams. Capital stock, $15,000.

Montreal, Can.—E. Depocas.

Parkersburg, W. Va.—The West Virginia Hardware Co. has been incorporated by C. H. Shattuck, J. M. Jackson, Jr., C. F. Rathbone, P. L. Jones and Charles A. Moss. Capital stock, $100,000.

Stoneham, Mass.—The firm of Mann & Brown, who will occupy the new store in the Baker block as a Hardware emporium, is composed of C. C. Mann, of Stoneham, and F. W. Brown, of Boston, connected with the firm of Bolles & Wildes, wholesale Hardware dealers of Boston. Mr. Mann also has a large experience in important branches of the business.

Changes and Improvements.

Akron, Ind.—Ball & Co., agricultural implements and Hardware, succeeded by William Wilhoit.

Ashland, Ky.—John H. Eba & Co., Hardware, reported to have sold to Ogden Bros.

Ballinger, Tex.—Hall & Clampitt, Hardware and agricultural implements, succeeded by R. A. Hall.

Belle Plaine, Minn.—H. W. Diers, Hardware, moved to Roberts, Wis.

Belvedere, Ill.—W. W. Ray is removing the Hardware stock purchased by him from the building occupied by Disotell & Wilcox.

Bloomfield, Ind.—Grover & Hasler, Hardware and agricultural implements, succeeded by Hasler Bros.

Callaway, Neb.—Roy W. Welch, Hardware, succeeded by F. B. Harrington.

Chicopee, Mass.—O. C. Knox, stoves and tinware, reported to have sold out.

Delavan, Ill.—Smith & Moorehead have traded their Hardware stock to J. B. Coyner, of Farmington, for a residence property in Columbia, Tenn. Mr. Coyner moved the stock of Hardware to Hanna City, near Peoria.

Elizabethtown, N. Y. — T. C. Lamson, Hardware, reported to have sold out.

Elliott, Iowa.—Gem Hardware & Harness Co., reported to have dissolved partnership.

Gardiner, Me.—Dingley & Decker have put an entirely new front in their Hardware store, and the first and second floor fronts will be of plate glass. When completed, this will be one of the prettiest at this end of the street.

Harper, Iowa.—N. Kautenberger & Son, Hardware and agricultural implements, succeeded by J. A. Longhue.

Hartsville, Ind.—Mobley Bros. & Co., Hardware and agricultural implements, succeeded by J. T. Wright & Co.

Hebron, Ill.—H. D. Walling, Hardware, sold to Ira E. Hyde & Co.

Louisburg, N. C.—The Gannaway Hardware Co., dissolved. John E. Gannaway, of Lynchburg, Va., has sold his entire interest in business to the Louisburg Hardware & Supply Co.

Louisville, Ky.—Amended articles of incorporation of Robinson Bros. & Co., Hardware dealers, have been filed in the county clerk's office. The name of the firm is changed from Robinson Bros. & Co., to R. A. Robinson Sons' Co., and the authorized capital stock is increased from $150,000 to $700,000. The articles were signed by R. A. Robinson, president; William A. Robinson, Worthington Robinson, Charles P. Robinson, George A. Robinson, Archibald M. Robinson and A. Lee Robinson.

Luray, Va —F. W. Berry, Hardware, has removed to larger quarters.

Muscotah, Kan. —Allison & Bovington, Hardware, succeeded by W. C. Allison.

New London, Conn.—Daniel Latham, Hardware, succeeded by H. M. Whittemore.

Newmarket, N. H.—Young & Young will move their Hardware business into the store recently vacated by George W. Pillsbury & Son. They will retain the store now occupied by them for a storehouse.

North Washington, Pa.—Arner & Williamson, Hardware, succeeded by J. A. Williamson.

Oshkosh, Wis.—W. H. Crawford, who has been in the plumbing, Hardware and mill supply business in Oshkosh for the past thirty-one years, is removing his stock to Chicago, preparatory to establishing himself there in the same line of business. Mr. Crawford gives as the reason for his removal from Oshkosh to Chicago, the fact that he has had an excellent site and opportunity in view in Chicago for the past two years, and he has finally decided that it would be to his interest to make the change. He is moving his stock of goods from this city into a six story building at Nos. 418-420 Dearborn Street, and he occupies the basement and first floor of the structure.

Oskaloosa, Kan.—George Patterson, Hardware, reported to have sold out.

Pinconning, Mich.—The Shook Hardware Co. will put up a new brick store, 40x20 feet in size.

Rockford, Ill. —Mandeville & Lobdell, Hardware; V. D. Lobdell sold interest to W. H. Mandeville.

Somerville, N. J.—T. I. Honeyman has purchased the Hardware store of Thomas & Co., and taken possession. Mr. Honeyman is not a new man at the business, having been in it over a year.

Swedesboro, N. J.—Jacob Norton has purchased of David R. Black his interest in the Hardware store of Black & Norton. Mr. Norton is now sole proprietor.

Sycamore, Ohio.—Heard & Beebe, Hardware merchants, have sold out to E. C. Crosby, of Delta, Ohio, and the latter has taken possession.

Trimble, Tenn.—The Dyersburg Hardware Co. have added a repair shop.

Williamsville, Ill.—John B. Taylor & Sons have purchased the Hardware stock of W. C. Gilbreath & Son.

Business Embarrassments.

Boston, Mass.—Ernest S. Lent, Hardware, reported to have made an assignment.

Melrose, Mass.—William A. Burrill Hardware, etc., reported to be in bankruptcy.

Chicago, Ill.—Ignace N. Howell, Hardware, etc., reported to have made an assignment.

Burglaries in Hardware Stores.

Atlantic, Iowa.—Shoudy Bros., $200.

Seattle, Wash.— Seattle Hardware Co., razors, etc.

Recent Fires.

Atlantic City, N. J.—Three carloads of nails, one carload of iron pipe and a carload of heaters were totally ruined in a fire which burned a storage warehouse of the Currie Hardware Co. The fire is believed to have been of incendiary origin.

Bainbridge, N. Y.—Barlow & Clark, complete loss.

Baltimore, Md.—Crook, Horner & Co., dealers in plumbers', machinists' and millers' supplies, partially destroyed by fire, at a loss of about $150,000; covered by insurance.

Baltimore, Md.—J. R. M. Adams Hardware Co.; $1000; insured.

Dolgeville, N. Y.—Charles Dedicke, Hardware etc., destroyed by fire.

Detroit, Mich.—Baumgartner & Gleason, $150.

Evart, Mich.—Fire, caused by an explosion of an oil stove, damaged the three-story warehouse belonging to the Evart Hardware Co. Covered by insurance.

Huntington, W. Va.—The clothing, shoe and Hardware store of A. E. Cox has been burned. The loss is estimated at $50,000, with insurance of $20,000.

Rochester, Pa.—J. W. Hartzell, $1500.

Sharon, Pa.—An explosion occurred in the cellar of R. A. Hanna & Co.'s Hardware store and damaged the contents to the extent of $200. James Huffman, a clerk, was badly burned.

Stephensville, Tex.—Crouse & Leonard, Hardware, damaged by fire at a loss of $7000; insured for $3000.

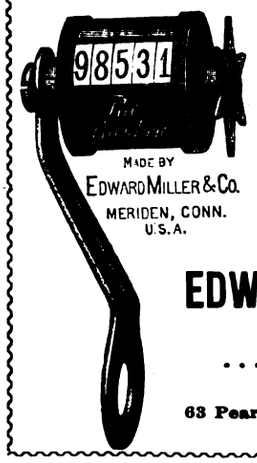
St. Paul, Minn.—Karst & Breher, Hardware, destroyed by fire.

Tulsa, I. T.—Brodick & Lewis, Hardware, damaged by fire.

Toronto, Can.—Bertram & Co., $100.

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The BURDICK CYCLOMETER.



Weight 1 Ounce.

10,000 Miles and Repeat.

New Principle. Reliable. Best.
Dust Proof. Water Proof.

1898 GOODS.

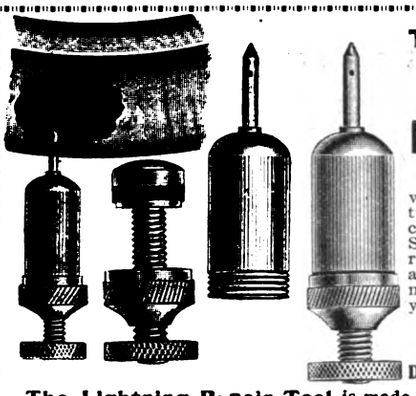
MILLER'S A1 LAMP.
EVERLIT LAMP.
ROYAL BELLS

EDWARD MILLER & CO.,

Factories and General Office,

... MERIDEN, CONN. ...

STORES:
63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.



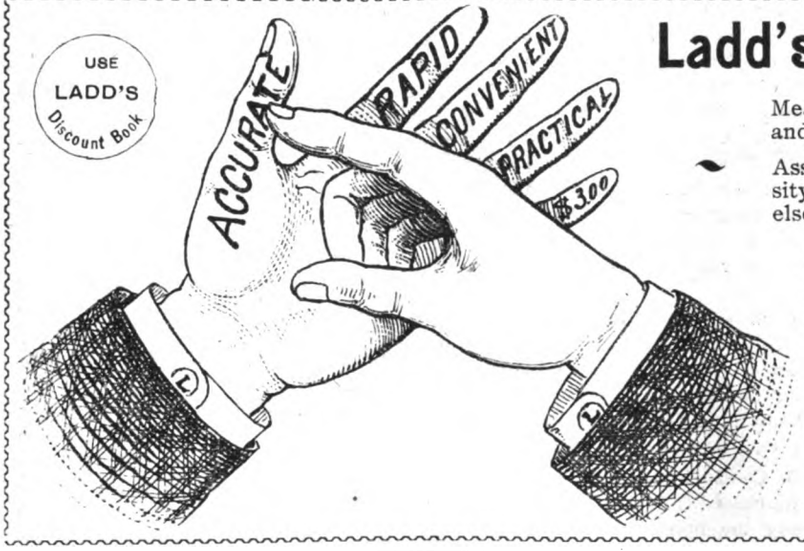
THE IMPROVED
Lightning Repair Tool

We want to correspond with every tire manufacturer and jobber of bicycle sundries in the United States, Canada and Europe. We have the best and cheapest repair tool made. We can interest you.

A. L. DEANE & CO,
DENVER, COL., U. S. A.

The Lightning Repair Tool is made under one or more of the following patents:

United States of America,	No. 571,422, Nov. 17, 1896.
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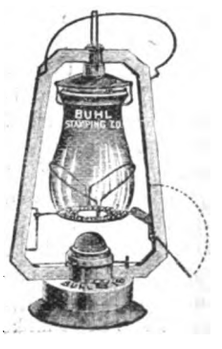
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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Albany, N. Y. — C. Kramer has received a patent for a pipe wrench. A company with a capital of $25,000 has been organized, to manufacture this useful article.

Baltimore, Md.— The W. L. Armiger Mfg. Co. has been incorporated by William L. Armiger, Waldo Newcomer, Charles G. Kriel, Daniel A. Klein and William A. Kammerer; for the manufacture of refrigerators, stoves, etc. Capital stock, $50,000.

Bedford, Ind.—The branch of the Columbus handle factory is to be located in Bedford and work will begin on it within thirty days.

Charleston, W. Va.— The Secretary of State has issued a certificate of incorporation to the Legg Handle Co., of Belleville, Wood County, W. Va., with an authorized capital of $50,000. The company is organized for the purpose of manufacturing hickory handles and dealing in lumber of all kinds. The incorporators are: J. M. Keever, Emma J. Keever, A. S. Keever and Maria Keever, of Belleville, and J. A. Wetheral, of Parkersburg.

Detroit, Mich.—Detroit is promised another industry in the shape of a factory for the manufacture of mica into lubricants, and for use in stoves and electrical apparatus, as well as other purposes. It is to be established by the Detroit Mica Mining Co., which is composed of H. M. McCormick, president; F. B. Clark, vice-president; Harry H. Wait, secretary, and Thomas R. Sherk, mining superintendent, all of Detroit, and is capitalized at $100,000. The mine which the company will operate is at Lyle Knob, in Macon County, N. C. The intention is to bring the raw material here to be manufactured. Superintendent Sherk is now at the mine, where the machinery is being put in, and it is expected to be in operation by March 1st. It is also expected that work will be begun in the factory here by May 1st, and the officers say that they will employ fifty people from the first, and turn out at least $100,000 worth of goods per year.

Hammond, Ind.—Long time leases have been drawn up by Marcus M. Towle, for the renting of his large factory building, formerly occupied by the Chicago Axe & Tool Co., to the Jackson Box Co. and the Kreuger Rawhide Belting Co., both of which concerns will move their establishments from Chicago to Hammond.

New York, N. Y.—The Mouthemont Machine & Tool Co. has been incorporated by F. Mouthemont, E. B. Mouthemont and Emil Gully. Capital stock, $10,000.

Richmond, Va. — The Richmond Hot Water Radiator Co. has been incorporated by Cornelius C. Hazlett, George H. Rogers, William C. Codd and Frederick S. Gassway. Capital stock, $15,000.

Changes and Improvements.

Albany, N. Y.—The Fuller & Warren Stove Co., of Troy, has filed with the Secretary of State a certificate of the extension of its business to include that of a general warehouse and storage business. The names of the trustees who are at present managing the concerns of the company are: Walter P. Warren, William Henry Warren, Walter Thompson and Robert H. Thompson. The company's capital stock is $450,000.

Galesburg, Ill.—W. H. Cooper, of Moline, has accepted a proposition to move from that city to Galesburg his factory, which employs fifty men. The Galesburg Business Men's Club offered him ten acres of ground and three buildings for factory purposes and to pay his expenses. This he accepted on condition that he should be allowed to pay for the plant as time permitted. Mr. Cooper is a manufacturer of saddlery Hardware.

Millbury, Mass.—With the opening of the new year Buck Bros. will commence the manufacture of razors. The firm has been considering the advisability of such a step for some time, and has come to the conclusion that it can be made profitable.

Norwich, Conn.—The Richmond Stove Co. have purchased from the Norwich Savings Society the building adjoining their works on the south, covering 119 by 95 feet, and in addition 224 feet of ground, with buildings thereon, on lower Thames Street, known as the W. W. Collins property: also the Burt Building, which connects the two properties. This will give the company a frontage on the river of 1000 feet. These new additions became necessary to provide room to take care of the increasing business of the company. The works are now melting daily more iron into new constructions than at any time during the past two years.

Utica, N. Y.—The Savage Arms Co. has been incorporated with a capital of $200,000, to manufacture the Savage rifles and kindred articles. The directors are: Henry W. Miller, Thomas R. Proctor, George E. Dunham, Charles W. Hackett, Walter Jerome Green, John A. Roberts, Edward H. Risley, of Utica; J. Scott McComb, of Dobbs Ferry, and Richard S. Reynolds, of Denver, Col.

Reading, Pa.—The Reading Hardware Co., of this city, which is to-day the most extensive establishment in the United States engaged in the exclusive manufacture of builders' Hardware, and whose plant is without exception the most substantial and best equipped industrial establishment in the city, are having built one of the most complete telephone systems to be found anywhere. The central station will be located in the factory office, in which will be placed a switchboard capable of accommodating fifty telephones, and will be in charge of a man whose only duty it will be to make the proper connections. The system, when completed, will consist of seventeen Swedish telephones, one of which will be placed in each of the most important departments. The new system will form a perfect means of communication between any of the departments containing a telephone, and will be the means of saving considerable time and labor. The system is being erected by Paul C. Anthony.

Rochester, N. Y.—The Robeson Cutlery Co., whose head offices are in Rochester, are about to move their factory from Camillus, a village near Syracuse, where it is now located, to the village of Perry, in Wyoming county. This city will continue to be the center of its business operations, and its salesrooms will be here, and all the shipping will be done from this city. The offices are located at No. 12 Saratoga Avenue. The change is expected to take place about April 1.

Improved Conditions.

Bridgeport, Conn.—The Gun Implement Mfg. Co. on Elm Street are running nights until nine o'clock. This busy concern has a rush of orders which will keep them busy for some time.

New Castle, Pa.—The laborers at the wire nail works, this city, were treated to a surprise when notices were posted telling them that from now on they would receive an advance of 10 per cent. per day and that at their next pay they would receive the advance for the past two weeks. The men had not been asking for the raise, and it was entirely unexpected. In the neighborhood of 100 men are affected.

Pittsburg, Pa.—Notices have been posted in the majority of the forty lamp chimney factories of the country that instead of the usual two weeks' shut-down, there will be only one day of idleness during the holidays this year—Christmas. The extra work means thousands of dollars in the aggregate to the workmen in wages.

Miscellaneous.

Fulton, N. Y.—The employees of the Hunter Arms Co. have been given notice of a general cut in wages to take effect with the beginning of the new year.

Hamilton, Ohio.—The Nile Tool Works are turning out, on the order of the Government, carriages for fourteen of the new disappearing guns intended for coast defense. The guns are twenty feet long, with a sixteen-inch bore, and will carry a projcetile twelve miles. The work of constructing the carriages is being done under the supervision of three inspectors appointed by the war department.

San Francisco, Cal.—The Japanese military authorities have decided to adopt a new rifle, to take the place of the Murata rifle, which will be manufactured in Japanese arsenals. The new rifle will have the smallest calibre of any army rifle, measuring only 6.5 millimetres, against 6.65 millimetres of the Italian and Dutch rifles.

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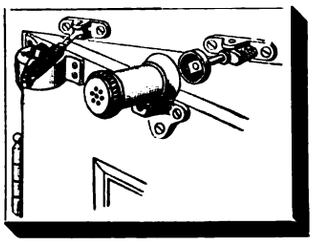
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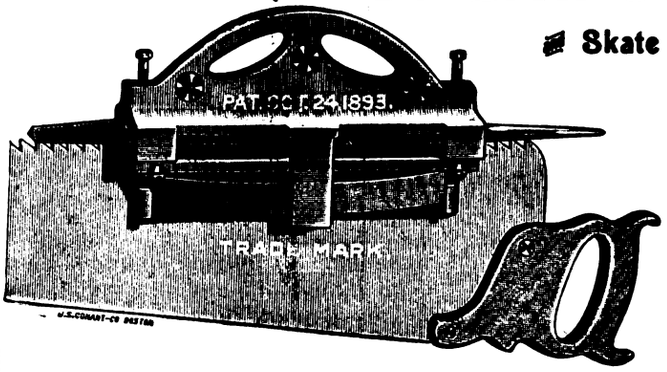
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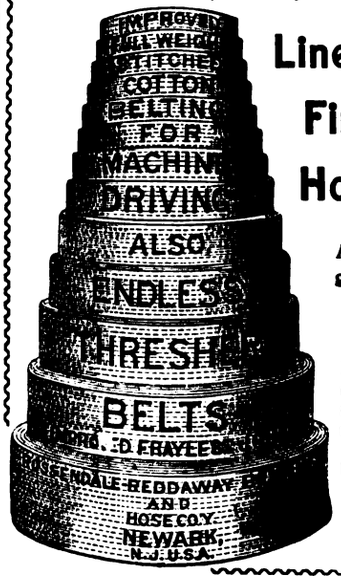
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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

DeLand, Fla.—J. A. Erickson, harness, etc., is preparing to take up a line of bicycles.

New Haven, Conn.—Andrew Pappardakes, of this city, has received a patent for a new driving machine for bicycles. His patent consists in a novel system of gearing by which, at every revolution of the pedals, the wheels of the machine revolve forty times.

Pittsburg, Pa.—The Sitwell Pedal Co. have applied for a charter, with the following incorporators: W. L. Abbott, N. L. Tener, H. L. Trees, W. L. Merwin and A. D. Boyd; to manufacture a new design of pedal for bicycles.

Rochester, N. Y.—It is announced that F. W. France will reopen his retail bicycle store in the spring, some time in March. The Barnes wheel will, as in the past, be his leader in high grade wheels. Mr. France recently visited Syracuse and saw next year's model of the Barnes. He was highly pleased with it and has decided to reopen his store and keep the Rochester agency. Other makes will also be handled, but he has not yet decided what they will be. Mr. France closed his store when he purchased the Toledo plant of Arlington U. Betts, proprietor of the Red Cross sundries. The plant was removed to this city and the Red Cross Rubber & Cement Co. is now one of Rochester's important industries.

San Diego, Cal.—Bay View Park Association has been formed by James R. Works, Ross A. Wood, J. M. Dodge, George T. Earle and H. S. Taylor, to equip and manage a bicycle track and athletic grounds. Capital stock, $2000, all subscribed.

San Jose, Cal.—The Pacific Coast Cycle Co. has been organized by George Rayburn, C. A. Mette, J. S. McGinnis, Gilbert Rayburn and George W. Peckman, to manufacture and deal in every way in all kinds of bicycles, tricycles and vehicles of every description and the various parts thereof and attachments thereto. Capital $500,000.

Seattle, Wash.—Bailey & Battelle have taken the agency of the Rambler wheels.

Syracuse, N. Y.—The Syracuse Handle Bar Co. has been incorporated for the purpose of making and selling handle bars for bicycles and similar vehicles. The capital stock is $4000. The directors are: Milo Harris, Jamestown; H. W. Wilkinson and Alfred Wilkinson, of Syracuse. The company is to work under the patents of Samuel Palmiter, of Jamestown, and C. E. Tomlinson, of Syracuse. In connection with this company, and operating under it, another one has been incorporated to work under the patents of Henry L. Trebert, of Syracuse. The principal business office will be located in this city.

Tampa, Fla.—The New York Cycle Supply Co., are now established in this city.

Changes and Improvements.

Athens, Ga.—The Collins Cycle Co. have moved into building on Lumpkin Street.

Chicago, Ill.—The American Cycle Mfg. Co.; plant has been purchased by J. H. Bradley, the former president. It is reported that the purchase price was $36,200. The inventory showed that the plant was worth in the neighborhood of $80,000. It is said that Mr. Bradley does not desire to operate the plant.

La Crosse, Wis.—John C. Holtz, bicycles, etc., succeeded by La Crosse Bicycle Mfg. & Plating Co.

Newport News, Va.—Maguyre & Small, bicycle repairing and remodelling, commenced business at No. 2511 Washington Avenue.

Reading, Pa.—Miller & Cleaver, bicyclists and machinists, reported to have sold out.

Sheboygan, Wis.—Fairweather, Weigand & Co., bicycles, etc., new store on North Eighth Street is about completed.

Taunton, Mass.—Goodwin & McDonald, bicycles, reported to have dissolved partnership, and each continues.

Toronto, Ont.—E. C. Hill & Co., bicycles, reported to have dissolved.

Washington, N. J.—Eastern Wheel Works, bicycles, reported to have gone out of business.

Recent Embarrassments.

Indianapolis, Ind.—The Central Cycle Co., which made a specialty of the Ben Hur wheel, assets have passed to the control of the Van Camp Hardware Co., this city, at receiver's sale, for $14,100. During the receiver's control he realized over $60,000 for creditors, and the claims have been met or will be.

St. Paul, Minn.—A. D. Smith & Co., bicycles, reported to have made an assignment.

Springfield, Mass.—The Overman Wheel Co., of Chicopee Falls, makers of the Victor bicycles, have made an assignment. It is one of the oldest and largest bicycle houses in the country. The company issued this statement: "The Overman Wheel Co. has made an assignment of all its property to H. H. Bowman, president of the Springfield National Bank, as trustee for the benefit of its creditors. The necessity for this action arose out of the company's inability to meet obligations maturing. As shown from the annual statement from the inventory taken November 1 last, the company has $539,000 liabilities, with $1,318,000 assets. A meeting of the creditors has been called at the office of the company for Friday, December 31, for the purpose of determining the future policy of the company. The management believes that with a reasonable extension of time the present prospects of business are such as to warrant a payment in full of all claims. The company now has advance orders for something over $250,000 worth of goods. The mill has been closed to await action of the creditors. The directors hope that the shut down will only be temporary." The greater part of the company's liabilities are held by New York and Boston banks. The help was paid off in full. The plant is said to be worth $500,000. There is $200,000 of assets in bills receivable and nearly $500,000 in stock in process of manufacture. The company is capitalized under the laws of Connecticut at $250,000. A. H. Overman holds a controlling interest, and the rest is held principally by Luther White, of Chicopee, the vice-president of the company, R. R. Reeder, of Chicopee, the secretary, and Rodney Dennis, of Hartford, and George D. Seymour, of New Haven, directors.

Recent Fires.

New York, N. Y.—L. C. Landorff & Co., No. 321 Broadway, damaged by fire, at a loss of $2000.

Owensboro, Ky.—Fire partially destroyed the Delker Cycle & Carriage Co.'s factory, corner of Main and Allen Streets. The loss will be about $2000, fully insured.

Miscellaneous.

Bridgeport, Conn.—Last year the owners and proprietors of bicycle stores in this city met and formed an association for the sake of sociability and to improve the wheeling business in general. The first annual banquet was held recently at the Windsor Hotel. Nearly every dealer in town was present. The affair was an enjoyable one from start to finish. An eight-course dinner was the main thing. From blue points to the regulation black coffee was a long distance, but the noble sellers of the silent steed did not need any sort of a wheel to take them over it. Everything was relished as only those with good appetites can relish good things to eat.

Jackson, Mich.—The Christy Saddle Co. recently shipped 7884 saddles to Chicago. The factory is turning out 2500 saddles a day.

New York, N. Y.—A union label for bicycles has been adopted, and the organizations in the Greater New York Label League will be asked to indorse it. The bicycle label has been issued jointly by the International Association of Machinists, the International Union of Bicycle Workers and the Metal Polishers, Buffers, Platers and Brass Workers' Union.

Peoria, Ill.—The Patee bicycle factory will be started up as soon as the necessary material reaches this city. President Patee says that his workmen are now building the first wheel, which will be used as a model.

Syracuse, N. Y.—Richard Schwartzkopf, of Berlin, Germany, has completed negotiations with E. C. Stearns, of this city, by which he secures the use of his patents, patterns and machinery with which to equip a factory in Berlin, and dispose of the Stearns bicycle to the German and Austrian trade. The business will be conducted on American lines, and several Syracuse people will go to Berlin and become heads of departments in the factory.

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Special Machinery

Estimates made on all kinds of Special Machinery, Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates. . . . . .

STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
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DOUBLE STROKE A.1.



DUNBAR BROS.
BRISTOL, CONN.

STEEL STAMPS AND DIES,
STENCILS, NOTARY, LODGE AND CORPORATION
CHECKS, BADGES, **SEALS.** MACHINERY PLATES.



Burning Brands, Brass Signs, Brass Labels,
Models and Moulds for Casting WHITE METAL
SCHWERDTLE & SIEBERT,
35 Fairfield Ave., BRIDGEPORT, CONN.

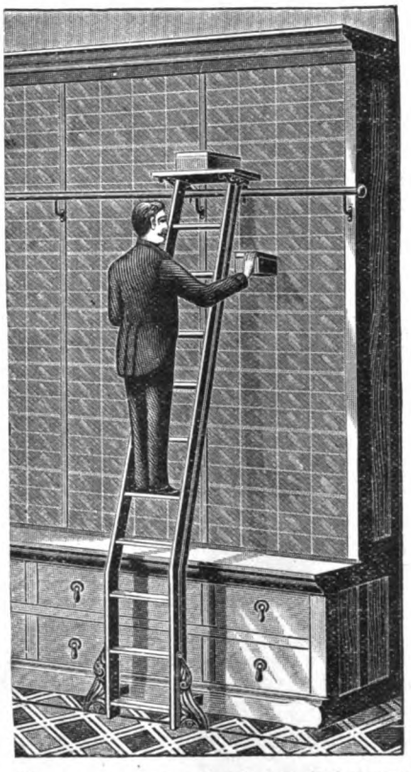
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E. T. Barnum, Detroit, Mich. [*Wire Goods*] We heartily recommend HARDWARE to those desirous of reaching the largest number of dealers.



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Especially adapted for Hardware Stores.



The newest, neatest, simplest, easiest operated, and safest store ladder made. Highest Award World's Fair. Write us.

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California, JOHN WOODLOCK, 26 Beale Street, San Francisco, Cal.
Northwestern States, HOWE SCALE Co., Portland Oregon.
Texas and Southwest, ED. FOY, Dallas, Tex.

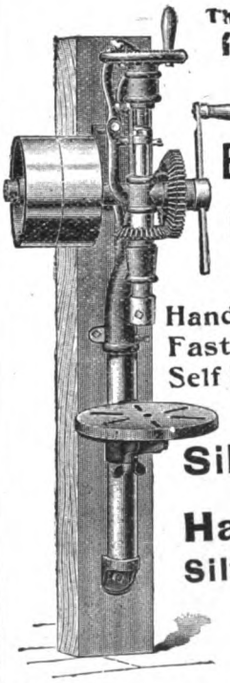


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Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
Quickly adjusted to any wheel.
Strong, Simple.

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ALSO . . .

Silver's OLD LINE Hand Drills.

Silver's Power Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed, Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with countershafts, and are suited for new work or repairs.

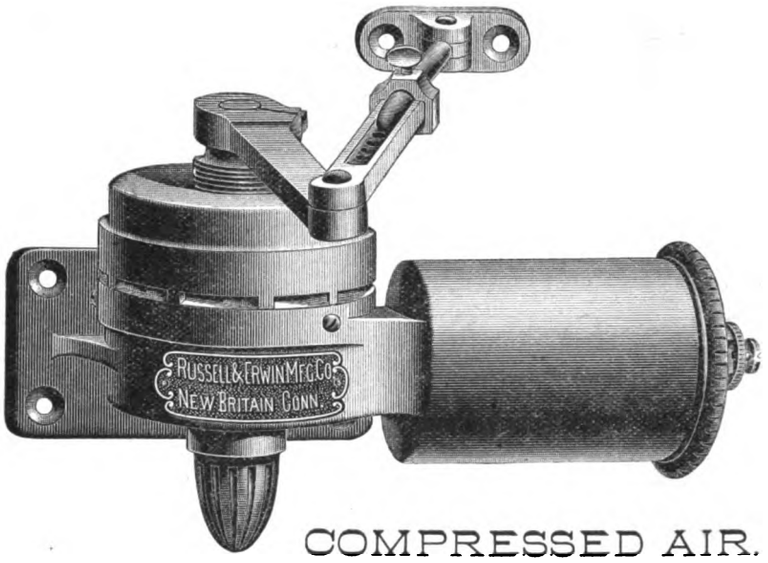
THE SILVER MFG. CO.,
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GUARANTEED TO DO ITS WORK PERFECTLY

COLUMBIA PNEUMATIC DOOR CHECK AND SPRING.

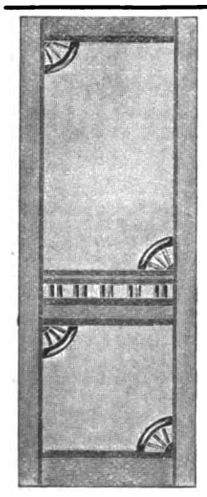
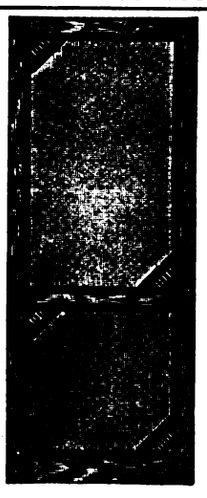
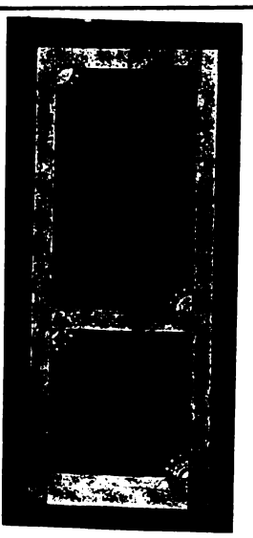
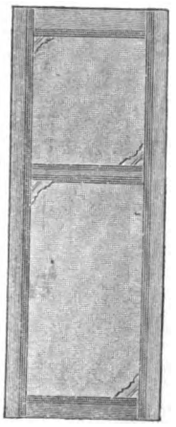
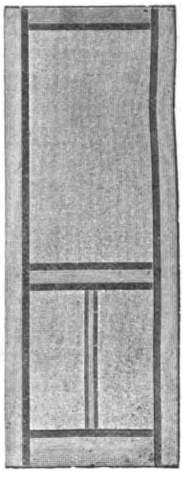
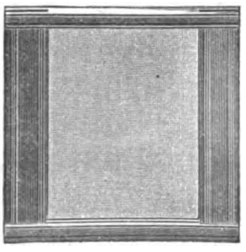
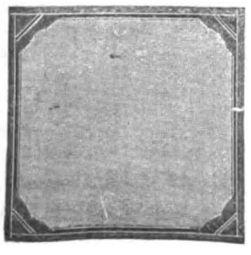


Simple in Construction.
Readily Applied.
Easily Regulated.
Powerful in Action.
Neat in Appearance.

COMPRESSED AIR. NO LEAKAGE.

Russell & Erwin Manufacturing Co.,

NEW BRITAIN, CONN. NEW YORK. PHILADELPHIA. CHICAGO. BALTIMORE. LONDON.

PHILLIPS' SCREEN GOODS

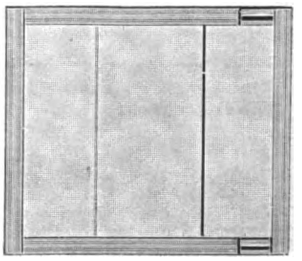
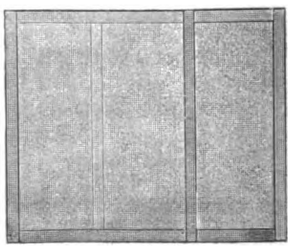
Have won for themselves the confidence and respect of the best posted buyers.

Where quality is considered as well as price, these goods are apt to have the preference. They are not rough. They are not "hustled," nor are they "degenerated" from other people's patterns.

What is a cent on a Window Screen or two cents on a Screen Door, when you consider that you wish to sell them again at a profit? Poor goods always have to be sold cheap! Of course, all manufacturers claim their goods are A1. But—what is your experience?

If your jobber will not sell you genuine Phillips goods, you can get them of the manufacturer.

THE A. J. PHILLIPS CO., Fenton, Mich.

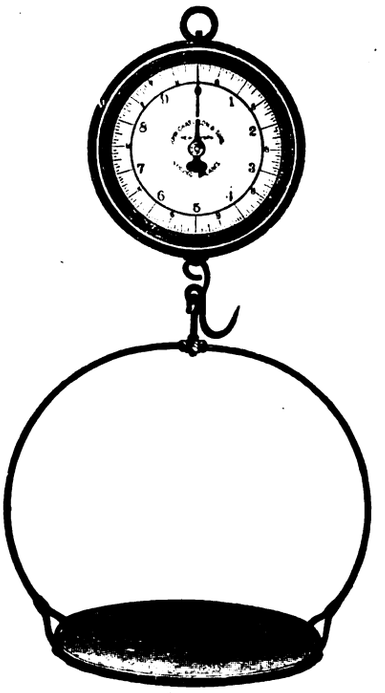



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CHATILLON SPRING SCALES.

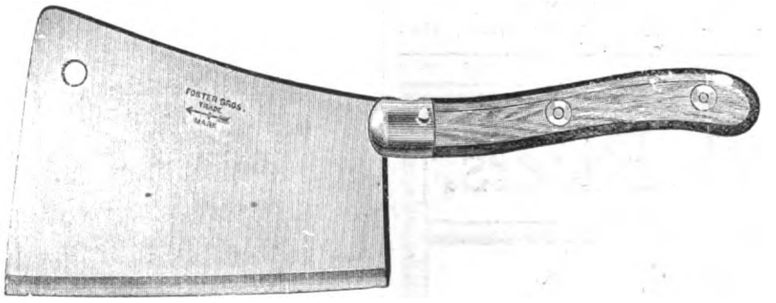
For more than **sixty years** we have carried on the business of making **Spring Scales,** and have made it OUR SPECIALTY.

All our Scales are warranted to weigh accurately and to be perfect in workmanship.



Our experience in the business, together with our unequaled facilities for manufacturing, enables us to produce a superior article, and thus to maintain the well-known reputation of **Chatillon's Spring Scales** as above that of other makes.

FOSTER BROS.' BUTCHER KNIVES, CLEAVERS, STEELS, &c.



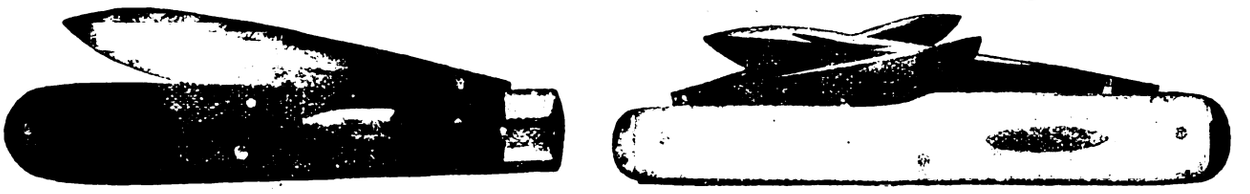
These Tools are recognized in the Markets, Packing Houses and Abbatoirs throughout the United States as the standard of excellence, quality being the first consideration. We carry in stock every style and size of Knives, Cleavers and Steels used in cutting meat; also knives for kitchen use in Hotels, Restaurants and for domestic purposes.

FRIEDERICH DICK'S MAGNET DIAMOND STEELS.



By careful workmanship and the use of a special steel in their manufacture THEY HAVE BECOME FAMOUS THROUGHOUT THE WORLD.

PHOENIX KNIFE CO.'S POCKET KNIVES.



Finest quality American Pocket Cutlery in large variety—Knives that are good sellers and will give satisfaction to the user.

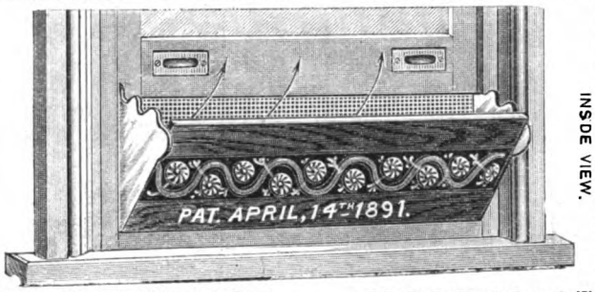
JOHN CHATILLON & SONS,

ESTABLISHED 1835.

85 to 93 Cliff St. and 12 Jacob St., - - NEW YORK CITY.

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THE COMMON SENSE WINDOW VENTILATORS.



SIMPLE, EFFECTIVE and CHEAP. INVALUABLE FOR USE IN
Offices, Sitting Rooms, Bed Rooms, Smoking Rooms, School Rooms, Churches, Court Rooms, Public Halls, Hospitals, Etc.,
. . . And, in short, wherever fresh air is needed indoors . . .
Adjustable to any window.
Send for Circular. Retails at $1.00. Discount to Trade. Agents wanted.
—Manufactured and for sale by—
PANCOAST VENTILATOR CO., INC.,
Main Office, 316 Philadelphia Bourse, PHILADELPHIA.



FRANKLIN S. MILES
MANUFACTURER OF
Brass, Iron, Steel and German Silver
SCREWS.
All kinds of Special Screws.
205 QUARRY ST.. - - PHILADELPHIA, PA.

To Bicycle Riders.

WE MAKE OUR TUBE
OF FIFTY CARBON STEEL

Because a Tube like this of our — .50% CARBON STEEL — Is just as strong as a Tube like this of — .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted]
and TWENTY-FIVE CARBON Steel will last only so long [redacted]

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory corroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.

The Hartzell Self-Draining Hose Reel

IT SELLS RAPIDLY.



Patented January 5, 1897.
Other improvements applied for.

It is scientifically and mechanically constructed.

It is a nice ornament and a great convenience in spraying and watering a lawn.

The hose is not kinked, twisted, crushed or drawn to a tension, thus avoiding the breaking of either the inner or outer walls of the hose which protects the fabric and prevents it from becoming water soaked, which usually causes the rapid destruction of the hose.

It drains all the water out of the hose, after it has been reeled, and keeps it always in good order, ready for service.

Each section of hose is independent of the others and may be easily detached at the top or bottom.

It sells at sight, because any person who owns a garden hose can readily see its advantages and superiority.

Jobbers are especially solicited to handle our goods to whom lists and prices will be furnished upon application.

DEALERS ask your Jobbers for the HARTZELL SELF-DRAINING HOSE REEL and insist on getting it.

If they will not supply you address us for prices, circulars and lists.

The Hartzell Novelty Works, Alliance, Ohio, U. S. A.

SHOOT BLUE ROCKS.

For Sale by all Jobbers.

Foreign Trade Supplied Direct or Through Exporters.

The Cleveland Target Co.,
Cleveland, Ohio



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THE BEST IN THE CITY.

Deposit your Securities and Valuable Papers and Silverware in the new vaults of

National Safe Deposit Co.

OF NEW YORK.

THE MUTUAL LIFE BUILDING,
32 Liberty Street, New York.

Safes $5.00 per Annum and Upwards.

OFFICERS.

JAMES C. HOLDEN, PRESIDENT. JOHN A. FONDA, VICE-PRESIDENT.
J. LYNCH PENDERGAST, SECRETARY AND MANAGER.

DIRECTORS.

JOHN W. AUCHINCLOSS, - OF AUCHINCLOSS BROS.
FREDERICK O. BARTON, - OF MINOT, HOOPER & CO.
JOHN A. FONDA, ASSISTANT TREASURER THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
JAMES C. HOLDEN, - PRESIDENT OF THE COMPANY.
ISAAC F. LLOYD, SECOND VICE-PRESIDENT THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK.
THEODORE W. MORRIS, OF THEODORE W. MORRIS & CO.
B. AYMAR SANDS, - - - OF BOWERS & SANDS.

The Mutual Life Insurance Company

OF NEW YORK,

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

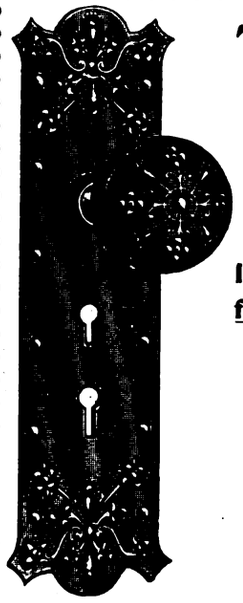
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

ROBERT A. GRANNISS, Vice-President.

WALTER R. GILLETTE, - - General Manager,
ISAAC F. LLOYD, - - - 2d Vice President,
FREDERIC CROMWELL, - - - Treasurer,
EMORY McCLINTOCK, - - - - Actuary,
WILLIAM J. EASTON, - - - - Secretary.



Trilby Design

(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,

Inside, and Sliding Door

Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of Builders' Hardware,

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

NEW YORK, 80 Chambers St., or 94 Chambers St., (UNDERHILL, CLINCH & CO.)
BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
CHICAGO, 36 Dearborn St.
BALTIMORE, 32 Hopkins Place. (HENRY KEIDEL & CO.)
PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

Bissell . .

Carpet Sweepers

FOR 1898.

"Cyco" Bearings and Dust Proof Axle Tubes

Will be the prevailing features, with others of equal value to be announced later on.

ADVERTISING HELPS

Furnished Gratis.

Bissell Carpet Sweeper Co.,

103 Chambers St., New York.

GRAND RAPIDS, MICH.

LONDON. - PARIS. - HAMBURG.

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EVERY PROSPEROUS HARDWAREMAN

MUST BE WELL POSTED.

Secure the benefit of all possible Competition in Buying. A Dealer's Reference Book is essential. Here it is. A complete one, independent of any other publication, giving the names of ALL manufacturers, those who do not advertise, as well as those who do. The only work of the kind maintaining this feature. 1898 edition ready in few days. . . . .

IT COVERS THE FOLLOWING TRADES:

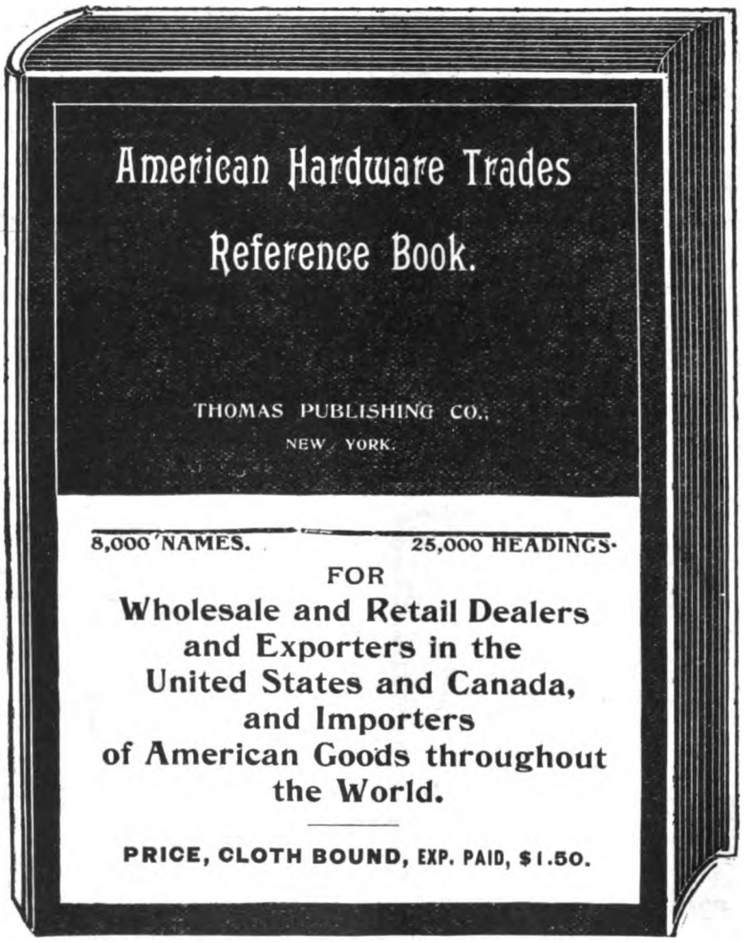
Hardware of All Kinds,

Hardware Specialties,

Agricultural Implements and Machinery of Every Description,

Carriages, Wagons, Harness,

Stoves, Ranges,



Tinware, House-furnishing Goods, Bicycles, Plumbing, Steam and Gas Fitting Goods of all Kinds and all Other Articles, Machines, etc., Handled by these Trades.

The object of the work is to enable the above trades to instantly find all the manufacturers of any article desired; the main and branch offices of every manufacturer in the trade, and the financial rating of every manufacturer.

Completeness.—The names of all manufacturers, regardless of whether they advertise or not. We give the names over 8,000.

Classification.—By our method of classification, we index every manufacturer under every article manufactured. We name some manufacturers under as many as 300 headings. We make no charge whatever for any number of headings required to completely represent every manufacturer. The book gives nearly 25,000, fifty times as many as any other publication gives to these trades. We do not use general headings, such as are used in ordinary directories, as for instance: "Hardware," "Agricultural Implements," "Vehicles," "Plumbing Goods," etc., but state the specific article and the special kind of article, and for what purpose used, as for instance: "Door Locks," "Bicycle Locks," "Refrigerator Locks," "Gang Plows," "Sulky Plows," "Swivel Plows," "Ditching Plows," "Brass Faucets," "Wooden Faucets," "Beer Faucets," "Steam Heating Boilers," "Combination Steam and Hot Air Boilers," "Air Valves for Radiators," etc., etc., throughout the 25,000 headings, naming every article, every special kind of article needed by these trades. It enables the user to instantly find exactly what is wanted. Nothing like this minute classification has ever been attempted before.

Ratings.—The financial rating of every manufacturer is given.

SAVES SUBSCRIBERS 100 TIMES ITS COST.

THOMAS PUBLISHING CO., SOLE PROPRIETORS, 40 Broadway, New York.

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Special to our Subscribers.

WE have contracted with the Thomas Publishing Co. for 10,000 copies of the 1898 American Hardware Trades Reference Book, which we are offering to the trade of the United States, with a year's subscription to "Hardware" for $1.50; the price of the book alone. . . . . .

« « « ◆ » » »

Those who are already paid subscribers to "Hardware" may take advantage of this offer by sending 50 cents. . .

« « « ◆ » » »

We do not agree to hold this offer open for any specified length of time, as it will be impossible to furnish the Book alone at less than $1.50 after these 10,000 are taken.

SEE OPPOSITE PAGE.

Hardware Publishing Co.,

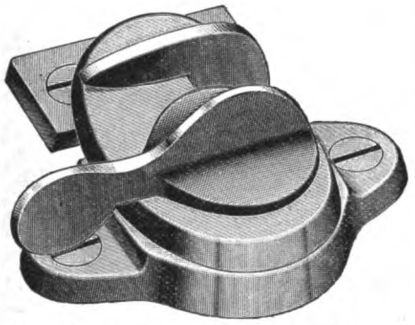
143 CHAMBERS STREET, NEW YORK.

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New Stamped Meta
Sash Lock,

In Cold Rolled Steel, Bronze and Brass. In all the Popular Finishes.

LOCKS OPEN. LOCKS CLOSED.



The Ives Patent Sash Locks

Have acknowledged superiority for the complete manner in which they perform the work they are intended to do. . . .

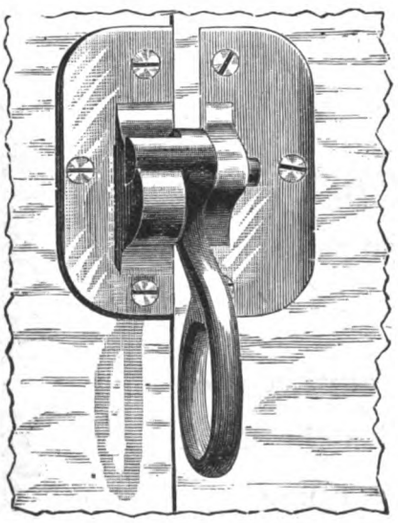
PATENTED AND PATENTS PENDING.

MANUFACTURED BY

HOBART B. IVES & CO.,
New Haven, Conn.

The CONROY PATENT
Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

P. J. CONROY,

Beware of Infringements. Paschall, Phila.

EXCELSIOR
Carpet Stretcher
AND
TACK HAMMER
COMBINED.

The only device ever invented that will lay carpets successfully.

Its merits are proved.

None better. Simple, Effective, Strong, Compact, anyone can use it. Hardware Dealers sell them.



Write for Prices.

Over 500,000 Now in Service. . .

Sole Mfr., R. W. MONTROSS, Galien, Mich.

FIT FOR THE TABLE OF A KING OR QUEEN.

THE
ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . .

Every piece of it impresses one with its individuality and high quality.

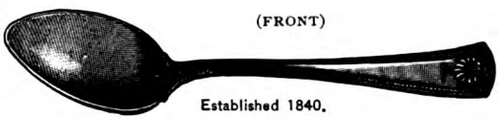
Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

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Factories:
HARTFORD, CONN.
NORWICH, CONN.
WALLINGFORD, CONN.
TAUNTON, MASS.

WM. ROGERS MFG. CO.,
Salesrooms:
HARTFORD, CONN.

Highest Grade of
Silver Plated Ware
In Spoons, Forks, Etc.
Manufactured by
L. BOARDMAN & SON, East Haddam, Conn.



(FRONT)

Established 1840.



(BACK)

Also Nickel Silver Flat Table Ware and Britannia Spoons.

Write for Catalogue and Prices.

AGENCY JOSEPH RODGERS & SONS, LTD.

THE BEST IS EVER AND ALWAYS CHEAPEST.

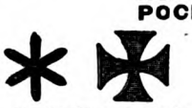
The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when
THE VERY BEST
can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF
JOSEPH RODGERS & SONS, LTD.,
SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS,
TABLE CUTLERY,
SCISSORS,
RAZORS,
HUNTING and BOWIE KNIVES
POCKET CUTLERY, &c.

Its Corporate Mark 

Is among the oldest, and now over 200 YEARS old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
93 Chambers Street, New York.

Established 1836.

ALFRED FIELD & CO.,

93 Chambers and 75 Reade Streets, New York.

Importers of

HARDWARE, CUTLERY, GUNS, ANVILS, CHAINS, FILES.

Sole Agents for

JOSEPH RODGERS & SONS, LIMITED,	BEST CUTLERY IN THE WORLD.
PEUGEOT FRERES, COATES CLIPPER MFG. CO.	HORSE AND TOILET CLIPPERS.
ELEY BROS., LIMITED,	CAPS, WADS, CARTRIDGE CASES, ETC.
L. HUGONIOT TISSOT,	FINE FRENCH PLYERS AND OTHER SMALL TOOLS.
ISAAC GREAVES,	SHEEP AND GARDEN SHEARS.
W. K. & C. PEACE,	GRASS HOOKS, SCYTHES AND STRAW KNIVES.
R. & J. LINACRE,	GRASS HOOKS, SICKLES, ETC.
WEBSTER & HORSFALL,	PIANO AND STEEL WIRE OF ALL DESCRIPTIONS.

Proprietors of the following brands of Cutlery:

ALFRED FIELD & CO., PARKER & FIELD, PROGRESS, CRITERION, BRANFORD CUTLERY CO., CONTINENTAL CUTLERY CO., WALTHAM CUTLERY CO., ALEXANDER FRAZER & CO., JONES & CO.

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Goodell Company, Antrim, N. H.

Simply to remind you that we make the best line of

CUTLERY

FOR THE HARDWARE TRADE,

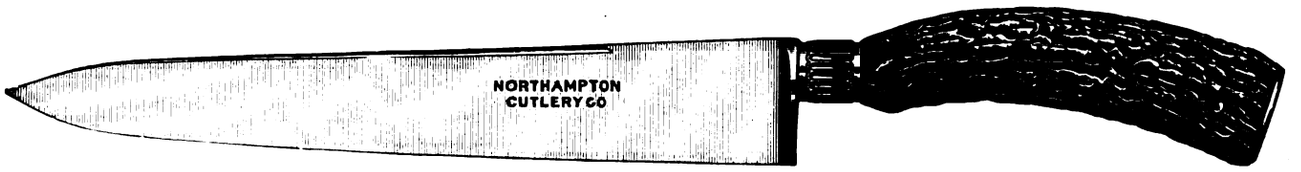
and those who want a prosperous and satisfactory Cutlery trade in 1898, will do well to tie to it. . . . . **Sold by the best Jobbers.**

. . . CATALOGUE FREE . . .

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NORTHAMPTON CUTLERY COMPANY,



Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office, Northampton, Mass.

New York Office and Salesroom, 96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears

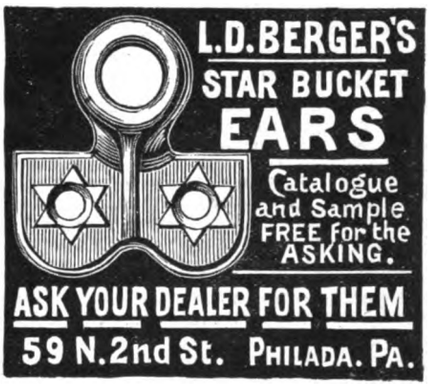


ACKNOWLEDGED THE BEST

Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

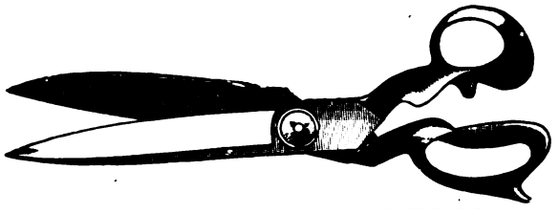
R. HEINISCH'S SONS CO.,

New York Office, 90 Chambers Street. NEWARK N. J



WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

YOU SHOULD HANDLE THOSE MADE BY

J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the BEST in the line, consequently the cheapest. . .



Extra Quality Axes.

Wide Bit,	Long Island,
Rockaway,	Dock,
Post,	Ice.

UNDERHILL, CLINCH & CO.,

SELLING AGENTS,

No. 94 Chambers Street, NEW YORK.

TRADE B MARK

G.W. BRADLEY'S

SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $6.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
—HIGH GRADE.—
Price per gro. $5.00.
OVAL, BEVELED, TRILATERAL, HEXAGON.
J. D. JOHNSTON, Newport, R. I.

RIVETS and WIRE NAILS.

C. C. & E. P. TOWNSEND,
New Brighton, Penn.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

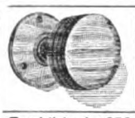
PRIEST'S CLIPPERS


Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

HOUSEFURNISHING HARDWARE & HARDWARE SPECIALTIES.

Basting Spoons, Cake Turners, Mincing Knives, Ice Tools, Tack and Nail Hammers, Hatchets, &c. Champion Cross Cut Saw Handles, &c.
KNAPP & PRATT MFG. CO.,
GENEVA, OHIO.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads. &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application


SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
Established 1870. . . . Manufactured by
James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

Seed's Reversible Self-Cleaning . . . WATER FILTERS
BRASS, NICKEL PLATED.
No. 1 Per dozen, $4.00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
21 and 23 Centre Street, - - NEW YORK.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

BY March 1st wanted a capable and industrious young man to run a Hardware store in western Pennsylvania. Give references and experience. Address care H. S. WEAVER, No. 438 Church Street, Indiana, Pa.

WANTED, a man to act as buyer or manager for a first-class wholesale and retail house in one of New York's best cities. Must have $15,000 or $20,000 capital. A good investment and a good position for the right man. Address "M. Z. K.," care HARDWARE, No. 143 Chambers Street, New York.

A MAN wanted to take charge of a retail Hardware store at Syracuse. State terms and experience, and address "LOOMIS," care HARDWARE, No. 143 Chambers Street, New York.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

WANTED—First-class traveling salesman to canvass manutacturers for the sale of Hardware, factory and mill supplies. Good salary will be paid to the right man. Address MANUFACTURER, care HARDWARE Publishing Co., No. 143 Chambers Street, New York.

WANTED resident agents in all cities not already covered, to sell our National Feed Boxes. This article is a startling success and has no competition. Active canvassers can make good profits. Address NATIONAL FEED BOX CO, No. 137 McGraw Building, Detroit, Mich.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk or traveling salesman, by a young man. Twelve years' experience on the road, and in retail Hardware, cutlery and guns. Best references. Address SHIRES, Lock Box 308, Bedford, Pa.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and general Hardware finishing. Address J. G. K., No. 535 Park Street, N.Y.

SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

EXPERIENCED traveling salesman, familiar with the jobbing trade, wants to better his future by connecting with a house where he can grow. Highest references from present employers. Salary not so much an object as an opportunity to show right house what he can do. Address "LANTERN," care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

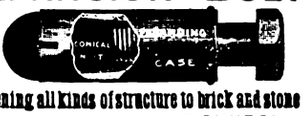
SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

SEVEN years with one of the largest and best known wholesale Hardware house on Chambers Street, N.Y. At present have one-half interest in retail Hardware and tool business Will dispose of this January 1st, and will be open to an engagement as buyer, manager or any position from stock to bookkeeping. Make an offer if you are looking for an all round man. Age 27, references. TAYLOR, care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

DIE MAKER, A No. 1 practical die and tool maker, well up in all latest improved dies and tools for novelty and general Hardware, dies for blanking, drawing, stamping, forging, etc. for all sheet metals, as brass, iron, steel and aluminum. Well up in modern shop methods to increase production, also automatic dies, feeds, stops, etc. Can design and develop ideas, ten years' experience in best shops in Massachusetts and Connecticut. Age 30. Can accept January 1st, '98. Best references as to ability and character Address, DIE MAKER, care HARDWARE, No. 143 Chambers Street, New York.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

WANTED, by a practical die and tool maker, a position as foreman or superintendent, familiar with typewriter, sewing machine, clock and bicycle work; has had experience at the bench, drawing board, and superintendent. Can handle men with good advantage and good results. Age 30. Can accept January 1st, '98. Best references. Address CONN, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A HARDWARE salesman desires a position in a first-class wholesale or retail Hardware store. Six years' experience. Good references. Will go anywhere. Address A. J. Y., BOX 208, Yarmouth, Me.

A FIRST class stove pattern maker wishes position in pattern shop-fast worker neat and artistic. Address GOOD MAN, care Hard, ware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., BOX No. 37 Concord, North Carolina.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

WANTED by a practical mechanic, with a good education and 17 years experience in working iron and steel, managing help, buying of mil supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., careHARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport, Conn.

POSITION by a young man, Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G. G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. BOX 533, Lake Mills, Ia.

AN experienced traveling salesman covering Pennsylvania, Ohio and Indana, in Hardware specilties, references gilt edge. G. M. STONE, North East, Pa.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

WANTED to travel in New England for A1 House Specialties preferred Best of references. Address H. H. BOX 1464, Boston.

Side Line Wanted.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L., care Forest City House, Cleveland, Ohio.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

Side Line Offered.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

For Sale.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address BOX 90, care HARDWARE, No. 143 Chambers Street, New York.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

MR. MANUFACTURER: Are you properly represented in Boston and New England? I sell to the Hardware, woodenware, kitchen-furnishing and department store trade. Can add a good line to my present ones, and give it proper attention. I have an established office, and an established trade. Address MANUFACTURERS' AGENT, Box 1561, Boston, Mass.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

ENERGETIC, capable business man, 12 years experience, would like to represent Cut and Wire Nail Manufacturers in New York and vicinity. Can guarantee good results to first-class mill. Address "CAPABLE" care HARDWARE, No. 143 Chambers Street, New York.

WANTED Agencies for Iron Steel Horse Shoes, Horse Nails and Blacksmith Sundries and Hardware Specialties; best of references. Address HARDWARE, care Carrier 24, Grand Rapids, Mich.

Office Room to Let.

OFFICE and desk room to let on street floor; most desirable location on Chambers Street, including steam heat and porter's services. R. CHRISTENSEN, No. 88 Chambers Street, New York.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.

DUNBAR BROTHERS' STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM SHEET STEEL, STEEL WIRE, BRASS WIRE
BRISTOL, CONN.



BOOMER STEEL RANGE,

With High Closet.

Rolling Front. Six Holes. Stationary or Portable Reservoir.

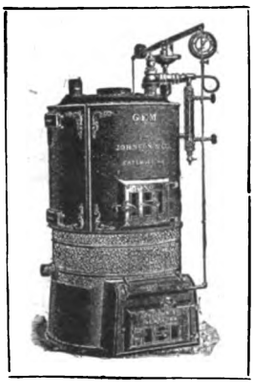
Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the

CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street, MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

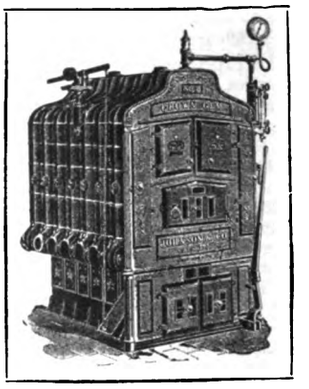
FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

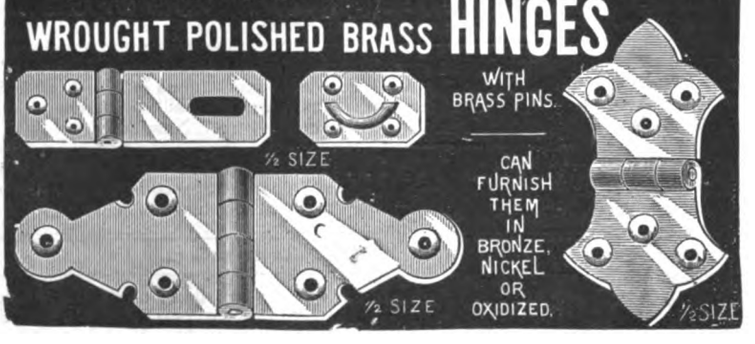
Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

. . . . MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.



Benefits Greater Than Ever Before.

Nicholson File Co., Providence, R. I., [*Files*]: We are pleased to state that the results thus far obtained from our advertisement in the columns of *Hardware* fully justify our having resumed our contract with you. We feel that the benefits which we are securing from your paper are **greater than ever before.**

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... 40&12½&5
Railroad.....

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....38 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.. ...$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 35&10&2%
First quality, 14, 16 and 20 gauge $7.50.....20&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c..
P.E., 11 up.1.00..P.E., 9&10...$1.25
P.E., 8....1.50..P.E., 7.....1.50
} 20&2%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag.....$1.22
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag.....$ .35
Buck Shot, 25-lb bags, ₩ bag...$1.47
Buck Shot, 5-lb bags, ₩ bag....$ .35
Chilled Shot, 25-lb bags, ₩ bag..$1.50
Chilled Shot, 5-lb bags ₩ bag..$ .35
Dust Shot, 25-lb bags, ₩ bag....$2.00
Dust Shot, 5-lb bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand:
Orange Rifle ex., kegs 25 lb $4.00
12½ lb 2.25
6¼ lb 1.25
Orange, Special, kegs 25 lb 5.00
12½ lb 2.75
6¼ lb 1.50
Orange Ducking, kegs..6¼ lb 2.25
[For 1000 lb lots 10% discount.
Blasting and Mining, A..25 lb 2.25
Blasting and Mining, B..25 lb 1.50
Laflin & Rand W.-A. Smokeless:
Single Canisters.....$1.00
10 Can Drums.....$9.00
Discounts on application.

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .35
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.35
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.25
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.50
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
Schultze:
Canister, equal in bulk to 1 lb best black.....$ .85
Canister, equal in bulk to 2 lb, best black..... 1.70
Drum, equal in bulk to 10 lb, best black..... 8.25
Drum, equal in bulk to 50 lb, best black..... 41.00
Drum, equal in bulk to 100 lb, best black..... 82.00
Discounts on application.

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....₩ doz. $2.80
Galien Safety.....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz. $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burton's, No. 2....₩ doz. pairs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs. $1.00

Anvils—

American "Horse-Shoe"...9½@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ₩ lb 9c.....15@15&5%
Hay-Budden, Wrought.....8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..30%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Ball hangers' bit.....40%
Brace twist drills for metals 50&5@50&10%
Brace twist drills for wood, 40&5@40&10%
Screw and plug.....35&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. 14 Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&12½&5

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $34.00, 20%
Cincinnati Adjustable.....35&10%
Cincinnati Standard.....35&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....30%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....35&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $30....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2, $48.....30%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@50&10%
Double Cut, Common, ₩ gro. $2.75@$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jennings & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@40&10%
Cleveland Wood Bits for Brace 50&5%
Syracuse, for wood.....40%

TWIST DRILLS—
Cleveland.....60&10@70%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@7 %

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....35%
Dunlap's Handled.....35%
Handled Brad, ₩ gr.....$3 00@$3.35
H'ld Scratch ₩ gr.....$3.75@$4.00
Pat. Peg ₩ gr.....33@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr.....$1.25@$1.45
Shouldered Brad, ₩ gr...$1.50@$1.65
Socket Scratch ₩ doz....$1.00@$1.10
Stanley Rule & Level'
Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $13; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders.
Nos. 1, $12; 2, $13; 4, $12; 5, $18.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands. $5 00@5 25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $36.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½&5
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½&5
Vulcan Tool Co.....60%

Balances—

Chatillon's:
No. 2000 20 30
₩ doz. 75c 85c $1.65 net
Circular Balances.....50%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....25%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....60&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Mouiders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&10%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....35&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $5. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bit Holders—

Angular.....40&5%
Extension:
Barber's, ₩ doz. $15.00.....45%
Ives'₩ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..₩ doz. $3..33⅓@33⅓&10%
Excelsior..₩ doz. $10.00....50&10&2%
N rth's.....10%
Zimmerman's....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₩ gro. sets.....$5.50
Gorhams Improved Star Tenon ₩ gro. $1.00.....35%
Merriman's Brass Lever ₩ gr. $15.00
Merriman's Iron Lever ₩ gr...$9.00
Millers Falls ₩ set $1.00.....15&10%
Security Gravity ₩ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ₩ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....3.1
Perfect Safety.....20%
Stowell Novelty Block.....50&10%

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Regular Iron Strapped Blocks 70&5@70&5&10%

Bolts—

DOOR AND SHUTTER—
Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&5@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list.50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &c.—
Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..75&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—
American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—
Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—
Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—
Enterprise.....20%

Borers, Tap—
Common and Ring.....20&10@35%
Enterprise, No. 1, $1.50; 2, $2.00; 3, $3.00 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50.....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—
1¼ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—
Heller's.....40&5%

Braces—
Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114.....60&10%
No. 208¼@212¼.....60%
Lancaster Mach. & Knife Works.45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—
Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—
Standard list.....85@85&10%

Bull Rings—
Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....60@60&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—
Beatty's.....40&5@40&10%
Bradley's.....25@30%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & I. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—
Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—
Ordinary Black Handle.....25%

Butt and Rabbet Gauges—
Stanley's.....25&10%

Butts—

BRASS—
Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@40&10%

CAST IRON—
Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow.....60@60&10%

WROUGHT STEEL—
List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow, Fast Joint, Narrow, Fast Joint, Light Narrow, Fast Joint, Broad, Loose Joint, Loose Pin, Table Butts, Back Flaps, etc.. 75%

Can Openers—
American.....₩ gross $1.75@$1.90
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $12.00.....25%
Dunlap's Sardine Scissors, ₩ doz. $5.00....25%
Dunlap's Wood Handle No. 2 $1.75.25%
Goodell's Acme, ₩ gr. $8.00; ₩ doz. 75c
No. 5, Iron Handle, ₩ gr....$2.00@2.25
Sardine Scissors...₩ doz. $2.00@2.25
Sardine Scissors, Forged Steel, ₩ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70&10%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—
Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—
Bullard's.....33⅓&5%
Cast Iron Steel Points, ₩ doz.75@$1.00
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—
Bissell's:
Gold Medal, Grand, Grand Rapids, Hall, Prize, Premier, Superior, Cyco-Bearing ₩ doz. $24.00 ₩ doz. $36.00 ₩ doz. $32.00 ₩ doz. $60.00 ₩ doz. $24.00 ₩ doz. $24.00 ₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $31.00
Furniture Protector, Japan.....₩ doz. $22.00
Furniture Protector, Nickel.....₩ doz. $24.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—
Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $4.00
Little Queen.....₩ doz. $4.00
Misses.....₩ doz. $9.00
Quantity rebates on application.

Casters—
Bed.....60&10&10@70%
Deep Socket.....60@60&10%
Giant Truck Casters.....25%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent (Phœnix).....60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—
Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....65%
Sargent's.....70&10@70&10&10%

COW TIES—
American.....60&10%
Covert's Horse and Cattle:
Jute.....33⅓%
Manilla.....33⅓%
Steel.....33⅓%
Triumph.....33⅓%

Chain—
American Coil, Ass'n cask prices.

3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Cherry Stoners—
Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—
Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale, Mix, Ohio Tool Co., P. S. & W., Sag Harbor Tool Co., Swan, Winsted Edge Tool Co. 75&10 &5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—
Box.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to $
Tanged Firmers'.....50@50&10%

Chucks—
Beach Pat....each $3.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $8.50; No. 2, $12.50.25%

Clamps—
Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adju table, Stearns'.....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati....25&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co.. 40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—
Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clips—
Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—
Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
National.....20
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—
Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—
Bradley's.....20%
Barton's.....20@20&5%
Beatty's.....25%
L. & I. J. White.....20@20&5%
Sandusky Tool Co.....25&10@20&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—
Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks—
Kretsinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—
Bradley's.....10%
Wadsworth's.....25@25&10%

Counter Sinks—
Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—
Sargent's List.....20%
Dixon's
Eclipse.....₩ gro. $3.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.81
Solid.....₩ gro. 7.50

Curry Combs—
Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....20@20&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—
Lane's.....33⅓&5%

Diggers—
See Post Hole, etc.

Dog Collars—
Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—
Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—
Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list....$35.00

Door Springs—
Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₩ doz $1.30@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—
Sargent's List.....60%

Drawing Knives—
Adjustable Handle.....40@40&10%
Bradley's.....25%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, Witherby 75& 10& 5%
P. S. & W.....
Watrous.....30@30&10%
L. & I. J. White.....25&5@25%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—
Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$15.00
Breast, Millers Falls, each $2.00 15&10%
Breast, P. S. & W.....40&10%

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Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓%
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....30@30&5%
Ratchet, Moore's Triple Act..25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....30&10%
Ratchet, Weston's.....30@35%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2½, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5(c. ea., less 5 %
Gravity Batteries, $1.00 ea.. less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone..6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb., less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt... 24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 80c. ₩ lb., less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P. 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 5%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OO FF.
Kegs, ₩ lb.	4½c	5c	3c
½ kegs, ₩ lb.	4½c	5½c	3½c
¼ kegs, ₩ lb.	5c	5½c	3½c
10 lb cans, 10 in case....	6c	6½c	5½c
10 lb cans less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Penn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's Boss Tin Key....50%
John Sommer's Chicago Cork Lined.....60%
John Sommer's Common Cork Lined.....70%
John Sommer's Cedar (in bbls.) 50&10%
John Sommer's Diamond Lock..40%
John Sommer's I. X. L. Cork Lined.....50%
John Sommer's No Brand Metal Key.....60%
John Sommer's O. K. Cork Lined.50%
John Sommer's Perfection Cedar.40%
John Sommer's Peerless Tin Key.40%
John Sommer's Reliable Cork Lined.....60%
John Sommer's W. P. Metal Key.40%
Star.....60@60&5%
Self-Measuring:
Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....40%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over)	5.50	6.50	7.00
Dairy Pails, 14 qt.	3.30	3.80	4.30
Fire Pails, 14 qt., stenciled "fire."	3.40		
Fruit Bowls	1.20	1.70	2.00
Keelers, 11½ inch	2.80	2.80	3.10
Milk Pans	1.50	2.00	2.20
Mats, 8½ inch (for table use)	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover)	6.50		
Pitchers, 10½ in. high	4.00	4.70	5.30
Peck Measures	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt.	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers)	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers)	4.00	4.80	5.30
Water Pails, 12 qt.	$3.00	$3.50	$4.00
Waste Paper Jars	3.00	4.00	4.50
Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)	1.20	1.70	2.00
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls	2.30	2 90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Derby.....75&10%
Economy.....75&10%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files.....33⅓%
Royal.....75%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00 No. 2, $2.50 No. 3, $1.50 No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (60c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&20%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....30%
Columbia, Spading.....60&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....30%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@30%

No	0	1	2	3	4
₩ doz.	$3.00	$3.75	$4.25	$4.75	$5.25
No	5	6	7	8	
₩ doz.	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓%
Clapboard.....20%
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch.....25&10%
Copeland Champion Bit ₩ doz $2.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....₩ gr. $1.50
Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets:
Assorted 1, 2 and 3.....₩ gr. $3.00
Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....45@50%

Graters—

Enterprise.....25%

Grindstone Fixtures—

Howard Iron Co.....20%
P., S. & W. Co.....60&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Woodins.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail..40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c
3 to 5 lb.....₩ lb 35c } 75@80%
Over 5 lb.....₩ lb 30c
Wilkinson's Smiths....9½c@10c ₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@50&10&10%
Door or Thumb:

Nos.	0	1	2	3	4
Per doz.	$ .80	1.00	1.08	1.35	1.50

50&10@60%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.62
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60&10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33⅓%.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₩ gr. $1.75@$2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00
Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....50&5%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

CROSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00.....60&10&10%
Cronk's Steel cov'd Loose Axle, 60&10&10%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....60&5%
New Model.....40&10%
Parlor, Standard.....40&10%
Standard.....60&10%
McKinney's "None Better," No. 2, $12.00; No. 1 Special, $13.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 63½c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....60&10%
Climax.....55%
Interstate.....60&15%
Magic.....50%
Matchless Covered.....60&10%
Wild West.....50%
Zenith.....55%
Baggage Car Door.....33⅓%
Elevator.....40%
Railroad.....55%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.60&10&5%
Warner's Pat.....30&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....60&10@60&10&5%

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Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers $6.00@$6.25
Wadsworth's ..... 40&5@40&5&7½%

He ge Shears—
Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T. .75@75&5%
Rolled Blind Hinges Nos. 33 and 34 50&10@50&10&5%
Rolled Plate, Rolled Raised .... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb. 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. { 6 to 12 in., ₩ lb. 2½c; 14 to 20 in., ₩ lb. 2¼c; 22 to 36 in., ₩ lb. 2 c
Strap and T. ..... 75@75&5%

SPRING HINGES—
Acme ..... 80@10%
American 80%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 80%
Crown 80%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts 40%
Gem ..... 80&10%
Zeil's American 80%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro $7.50
New Idea, No. 2, ₩ gro $18.00
Oxford ..... 80&10%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single .. 70&10%
Japanned Surface, Double. 60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 35%
Wiles' No. 1, ₩ gr., $16.00; No. 2. $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense .. ₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E. .. ₩ doz $7.80 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.00 60@60&10%
N. Y. State .. ₩ doz $4.90 .. 60@60&10%
Reed's Latch and Hinges .. ₩ doz $12.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3. 60&10@60&10 &5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 80&10%
Nos. 40 and 50 ..... 80%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13. 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 80&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 80&10&5%
Champion Gravity Locking, No. 75 ..... 80&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5, 10&10%
Tip Pattern, Nos. 1, 3 and 5, 80&10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 10½ 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80&10%
Noiseless, Nos 50, 60, 65 and 65. 50%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 060, 45 and 5½ .. 75&5%
Steam Boat Gravity Locking, No. 10 ..... 80&10&5%
Stenger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.80 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy .. ₩ doz. $4.50 net
Cotton ..... 30&12½&5
Dunlap's Boys', Ladies', Toy 30%
Garden ..... 75&20%
Mortar ..... 75&20%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe ..... ₩ doz. $3.75 net
Planter's ..... 30&15%
Texas Cut Easy ..... ₩ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 30@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes .. $3.00@$3.25
Ringers ..... ₩ doz. 50@75c
Perfect Rings ..... ₩ gro. $7.00@$7.50
Perfect Ringers ..... ₩ doz. 80c

Hollow Ware—

IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware .. 70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 40&10%
White-Ware ..... 25&10%

STOVE HOLLOW-WARE:—
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans .... 62½@65%
Maslin Kettles .... 75&5@75&10&5%
Tinned Boilers and Saucepans .. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—

BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00: Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list .. 60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 60&10%
Chandelier 70%
Clothes Line, Sargent's list .. 5[illegible]&10%
Coat and Hat, Sargent's list .. 50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list .... 50@50&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 60&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50@50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Celing 70%
Wire Coat and Hat, Acme .. 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 35%
Grass, No. 2, $1.60; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Wniffletree ..... ₩ lb 4½c

Horse Nails—

Nos.	6	7	8	9	10
A. C.	25c	23c	22c	21c	21c.

40&10%
American, all sizes, 9½@10c ..... net
Ausable ..... 28c 26c 25c 24c 23c. 40&10&5%
Anchor ..... 23c 21c 20c 19c 18c 40%
C. B. K. 25c 23c 22c 21c. 21c 40%
Capewell ... 19c 18c 17c 16c 16c. 10&5%
Champlain .. 26c 26c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 16c 15c 14c. 30&10&5%
Empire Bronsed 10c
Essex ..... 25c 25c 25c 24c 23c. 40&10@50%
Lyra .... 9½c 9½c 9½c 9½c 9½c., net
Maud S. .... 25c 23c 22c 21c. 21c 50&10&5%

Nos.	6	8	9	10
Northw't'n.	25c	23c	22c	20c.

25@25&5%
Putnam .... 23c 21c 20c 19c 18c 25%
Snowden, 9½c 9½c 9½c 9½c., net
Vulcan ..... 23c 21c 20c 19c 18c 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick .... ₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $7.20 .. 25%
No. 34 ..... ₩ doz. $15.00 25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.50 .. 20@35%
Butcher Knives ..... 25@35&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher 25%
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives .. 25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2⅛ in. Bead, ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 6[illegible]&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel .. ₩ doz. $1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.50
No. 2 0 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Continental ..... 60&10%
Drexel Cheap Mowers .... net
Enterprise 40%
Genuine Philadelphia Mowers:
C. K. L. ..... 70&10%
Styles A., and E. ..... 60&10%
Styles, D., D. O. W., M., S., T., Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 35%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00
Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:

	No. 1.	No. 2.	No. 3.
₩ doz.	$12.00	$15.00	$24.00 .. 35%

Lemon Squeezers—
Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40 ..... 30%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.35 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 30%
Hotchkiss, Straight Flush ₩ doz. $9.60
Jennings' Star ... ₩ doz. $1.90@$2.00
Little Giant ..... 50@50&5%
Porc. Lined, Iron ..... $3.25@$3.50
Porc. Lined, Wood .... ₩ doz. $6.00 80&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—
Name Door Plate ..... 50@50&10%
Name Plate 70%
Number Door Plate ..... 60@60&10%
Sargent's ..... 60&10@70%

Levels—
C. E. Jennings & Co.'s:
Hexagon ..... 35&10%
Iron Bench, new design .... 35&10%

Lifters—
See Transom Lifters.

Lines—
Cotton and Linen Fish, Draper's 50%
Cotton Chalk, 50 feet ..... 60&10%
Cotton Trot 33⅓%
Masons':
Colored Cotton ..... 40&10%
Flax ..... 40&10%
No. 0 to 5 ..... 35%
Samson, Cotton, No. 4, $2; No. 4½, $2.50 .... 10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro 25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 30%
Wire Clothes, 100 feet, No. 18, $3.25; No. 19, $3.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co ..... 40@40&10%
Branford Lock Co ..... net prices
Brooklyn Latches ..... 60&10%
Champion Night Latches 40%
Dietz Flat Key 30%
Mallory, Wheeler & Co .. 60&10@70%
Norwalk Lock Co ..... 60&10%
Plate 33⅓%
R. & E. Mfg. Co ..... 60&10@70%
Reading Hdw. Co ..... 60@60&10%
Romer's Night Latches ..... 20&5%
Sargent & Co ..... 60&10@60&10&10%
Slaymaker, Barry Co's:
Corrugated Key Latch ..... 35&5%
All other Night Latches 40%
Yale ..... net prices

CABINET—
Barnes Mfg. Co ..... 40@40&10%
Dietz:
Nos. 22 to 39 ..... 40%
Nos. 41 to 78 ..... 45%
Nos. 87 to 96 ..... 30%
Eagle Lock Co ..... 45&5%
Charles Parker Co ..... 45&5%
Romer's 25%
Stoddard Lock Co ..... 30@35&5%
Yale ..... 45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00 ..... 40%
Ames Sword Co 40%
Barnes Mfg. Co ..... 50@50&10%
Champion 40%
A. E. Dietz 40%
Eagle 40%
Eureka, Eagle Lock Co ..... 40&5%
Gem, Corbin's ..... 40&5%
Romer's Nos. 0 to 3½ ..... 40&5%
Scandinavian ..... 30&40@60&40&10%
Smith & Egge Bicycle 50%
Wrought Iron ..... 75@80%
Yale Lock Co ..... net prices

TRUNK—
Corbin's 25%
Eagle 25%

Mallets—
Sargent's List
Hickory ..... 50@55&10%
Lignumvitæ ..... 50@55&10%
Raw-Hide ..... 40&10%

Mattocks—
Regular list ..... 70@70&10%

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Meat Cutters—

American.....30%
Nos....1 2 3 4 B 5
Each.$5 $7 $10 $25 $50 $60

Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ℔ doz $60.00
Dixon's.....℔ doz 33⅓%
Nos..... 1 2 3 4
$14 $17 $19 $30
Enterprise.....25%
Nos.....10 12 22 32 42
Each...$3 $3.50 $4 $6 $15
Hales Pattern ℔ doz.....70@70&5%
Nos..... 11 12 13
$27 $33 $45
Home No. 1..℔ doz $26.....60%
Little Giant.....50&10%
Nos. 305 310 312 320 322
$35 $43 $44 $72 $68
Miles' Challenge ℔ doz...45@45&10%
Nos..... 1 2 3
$23 $30 $40
Perfection.....net
Woodruff's ℔ doz.....33⅓%
Nos.....100 150
$15 $18

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ℔ lb..25c
No Name.....℔ lb..15c
Mystic.....℔ lb..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ℔ doz.$12.00

Nails—

WIRE AND CUT NAILS—
See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....67½%
Grand Crossing Tack Co. List:
Wire Brads.....65%
Wire Nails.....85%

PICTURE—
Brass Head. Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list..40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—
Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ℔ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....℔ doz $18.00, 20%
National.....40%
Pelican.....℔ doz $9.00, 15&10%
Scranton No. 2.....℔ doz. $10.00
Scranton No. 3.....℔ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point℔ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ℔ gro. $10.00
Hunters' Cup Point, Plain.... ℔ gro. $9.00
Round, assorted.....℔ gr. $3.00@3.25
Square.....℔ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ℔ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6.30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....℔ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—
Pikes Washita:
Lily White, ℔ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ℔ lb..... .50
No. 1..... .40
No. 2..... .30

Pike's Washita Round Edge Slips:
3 to 5x1¾ to 2¾ to ⅝ at back, ⅛ to 5-16 edge ℔ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ℔ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ℔ doz.....$12.00
7x2, " 11.00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x½ to 1¼, ℔ lb..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—
Boston Belting Co.:
"Boston".....60%
"Excelsior" Self-Vulcanizing, per lb 70c.....40%
Boston "Phoenix" Red Sheet, per lb..... 50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—
American Packing.....9c@10c ℔ lb
Cotton Packing.....14c@15c ℔ lb
Italian Packing.....12c@14c ℔ lb
Jute.....6c@7c ℔ lb
Russian Packing.....13c@14c ℔ lb

Padlocks—

See Locks.

Parers—

APPLE—
Advance.....℔ doz $4.50
Baldwin.....℔ doz 5.00
Bonanza.....each 5.00
Daisy.....℔ doz 3.50
Dandy.....each 7.50
Eureka, 1888.....each 16.00
Family Bay State.....℔ doz 12.00
Favorite.....℔ doz 5.00
Gold Medal.....℔ doz 4.00
Ideal.....℔ doz 4.00
Improved Bay State.℔ dz..$27@30.00
Little Star.....℔ doz 4.00
Monarch.....℔ doz 13.50
New Lightning.....℔ doz 5.50
Oriole.....℔ doz 4.00
Penn.....℔ doz 3.00
Perfection.....℔ doz 4.00
Pomona.....℔ doz 4.00
Reading, 72.....℔ doz 4.00
Reading, 78.....℔ doz 7.00
Rocking Table.....℔ doz 5.50
Scott's Pat. Rotary, ℔ doz $15.00, 20%
Turntable.....℔ doz 4.50
Victor.....℔ doz 13.50
Waverly.....℔ doz 8.75
White Mountain.....℔ doz 4.00

POTATO—
Antrim Combination....℔ doz 5.50
Hoosier.....℔ doz 13.50
Saratoga.....℔ doz 5.50
White Mountain.....℔ doz $4.50

Pencils—

Dixon's:
Carpenters'.....℔ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....℔ gro. 9.00
Lead.....℔ gro $4.50
Lumber.....℔ gro. 6.87
Mascot, Hexagon.....℔ gro. 3.38
Mascot, Round.....℔ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—
Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—
Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....25%
C. E. Jennings & Co., Iron.....50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's..50&10&10@50&10&10&5%
Miscellaneous.....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—
Auburn "Thistle"..... Ohio..... Sandusky..... } 30&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....20&5@25%

Pliers and Nippers—

Button's.....70&10@70&10&5%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ℔ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ℔ doz $13.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....30%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....30%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's.....75&10&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ℔ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ℔ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....℔ lb 8c
Joseph Dixon's.....℔ gro $5.75, 10%
Gem.....℔ gro $4.50, 10%
Lustro.....℔ gro $4.75
Rising Sun.....℔ gro $5.50@$5.75

Poppers, Corn—

Round or square, 1 qt., ℔ doz. $ .75; ℔ gr. $6.50 } 10@ 1½ qt.℔ doz. $ .85; ℔ gr. $8.00 } 15% 2 qt., ℔ doz. $1.15; ℔ gr. $12.00 }
Quincy Corn Popper, 1 qt., ℔ doz. $3 00; 2 qt., $4 00.....33⅓%

Post Hole Diggers—

Ryan's.....℔ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Disston's Combined Pruning Hook and Saw...℔ doz $18.00, 25@25&10%
Disston's Pruning Hook....℔ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....℔ doz $3.50, 30%
Henry's Pruning Shears ℔ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ℔ doz.....$3.50@3.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....℔ doz $12.00, 25&10%

Pulleys

Awning.....60@60&10%
Axle.....60&10@60&10 10%
Brass Screw.....66⅔@70%
Ceiling.....50@10 60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%
Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%.
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ℔ doz $12.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump..... $13.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig. 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14. Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 32, Fig. 523, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump.....$17.00
No. 70. Fig. 333, 2½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 443, 3 in. Lift Pump.....$10.00
No. 108, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 235, Fig. 389, Windmill Pump.....$13.50
No. 230, Fig. 402, Windmill Pump.....$13.50
No. 235, Fig. 406, Windmill Pump.....$14.50
No. 240, Fig. 406, Regulator Pump.....$30.00
No. 280 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 265, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 483, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 330. Fig. 492, Bucket Spray Pump.....$5.50
No. 331, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive,.....50@5%
Check.....55%
Spring.....50&5%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ℔ doz..60@65%
Spring, good quality, ℔ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ℔ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&2%

Rail—

Barn Door, Light, In. ½ ⅝ ¾
Per 100 feet.....$1.40 1.65 1.80
Barn Door, "None Better" No. 1, ℔ foot.....2¼c
Barn Door, "None Better" No. 2, ℔ foot.....3¼c
B. D. for N. E. Hangers:
Small. Med. Large
Per 100 feet..$1.60 2.00 2.50
Carrier Steel Rail, ℔ foot.....4½c
Cronk's:
Competition.....℔ foot, 2¼c
Common.....℔ foot, 2¼c
Double Braced.....℔ foot, 2¾c
Lanes' O. N. T.....℔ 100 ft. $2.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ℔ ft. 6½c
Sliding Door, Iron, Painted...℔ ft 2c
Sliding Door, Wr't Brass, 1½ n. ℔ lb, 35c.....30&10@40&5%
Terry's Steel Rail, ℔ foot.....3½c
Victor Track Rail, 7c ℔ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ℔ doz. $4.00
Boss, Garden, 14 teeth, net ℔ doz. $3.60
Boss, Garden, 18 teeth, net ℔ doz. $2.75
Canton Lawn Rake...℔ doz. $3.50
Crown Lawn, No. 1....℔ doz. $3.50
Hustler, No. 0.....℔ doz. $3.90
Lawn Rake.....℔ doz. $4.75
Malleable.....70&10@75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....20%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

Stowell's:
Japanned.....60&10%
Nickel-plated.....75&10%

HOT AIR—
Ferrosteel, Japanned.....80&10%
Ferrosteel, Nickelplated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....80%
Thousand in bulk.....9&5%
Thousand, in papers.....8 &5%
Coopers, in bulk.....8%
Block, and Carriage in papers.8%
Hame.....80%
Belt with burrs, tinned or copper.....75%

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Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..$ doz. $1.00 net
Screw Stay.....$ doz. 60c net

Rope

Cotton Rope, Best,
¼ in. and larger.....$ lb 13 @14c
Medium, ¼ in. and larger.....$ lb 10 @12c
Common, ¼ in. and larger.....$ lb 8½@10c
Jute Rope.....$ lb 5½@5½c
Manila:
7-16 in. and larger.....$ lb 6 c
⅜ in.....$ lb 6½c
¼ and 5-16 in.....$ lb 7 c
Hay Rope, Med.....$ lb 6 c
Sisal, ⅜ in.....$ lb 5½c
¼ and 5-16 in.....$ lb 6 c
7-16 in. & larger.....$ lb 5 c
Med. L'th Y'rn.....$ lb 4½c
Hay Rope.....$ lb 5 c

Rules—

Athol, Steel.....33⅓%
Boxwood..&10&10&10@30&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....$ lb 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, $ doz. $6.50
Nickel.....$ doz. $7.00
Common 4 to 10.....$ lb 2½@2½c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, $ doz.....$7.45
No. E 50, nickel plated, size 1, 2 or 3 without handles, $ doz..$4.45
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.00
No E 55, plain polished, size 1, 2 or 3 without handles, $ doz..$4.00
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, $ doz.....$8.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, $ doz..$5.25
No. E 60, nickel-plated, size 4, with "best" handles, $ doz $9.80
No. E 60, nickel-plated, size 4, without handles, $ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, $ doz.....$7.75
No. E 65, plain polished, size 1, 2 or 3 without handles, $ doz..$4.75
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, $ doz.....$3.00
Self-heating.....$ doz $10.00, 20%
Self-heating, Tailors' $ doz $23.50, 25%
Sensible Nickel.....$ doz. $7.00
Sensible Pol.....$ doz $6.50
Sensible, Tailors'.....$ lb 3@3¼c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@[illegible]
Sand and Emery Paper..5[illegible]10@40%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....$ lb 16c
Cable Laid Russia....$ lb 13½c@14c
Common.....$ lb 8½c@ 9c
Common Russia Sash.$ lb 12½c@13c
India Hemp Sash.....$ lb 9½c@10c
Jute, good quality.....$ lb 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....$ lb 30c
"Samson" Braided Drab, Cotton.....$ lb 35c
"Samson" Braided Italian Hemp.....$ lb 33c
"Samson" Braided Linen, $ lb 55c
Silver Lake:
A Quality, Drab..$ lb 55c. 35@40%
A Quality, White, $ lb 50c. 35@40%
B Quality, Drab, $ lb 35c.....15@15&7½%
B Quality, White $ lb 30c.....15@15&7½%
White Cotton Braided, $ lb..[illegible]@[illegible]c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....75%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....$ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McFarlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Griffin's:
Complete'.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...$ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..$ gro..$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. $ doz.....$6.00
Excelsior Saw Tools $ doz....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....$ doz. $10.00
"Royal".....$ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $33.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, $ doz.....$4.75
Stillman's $ doz.....$1.00
Taintors Positive...$18.00 $ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, $ doz. $17.00@ $18.00
Tea, No. 161.....$ doz. $5.75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '93.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....$ doz., $3.00
Box, 2 Handle....$ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....$ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

Phillips:
Bonanza Screens.....60@60&5%
Extension.....50&10&5%
Flyer.....50&10&5%
Perfection Screens.....60@60&5%
Window Screen Frames.....60&5%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screen Doors—

Phillips:
Empire Fancy.....30&25%
Fancy Pine.....15%
Painted.....50&5%
Stained.....50&10%
Standard Oil.....25&40%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....27½%
Champion.....40&10%
Disston's.....50@50&5&10
Pat. Excelsior.....50&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdls. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
135 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
143 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....$ doz., 50@75c
Screw-Driver Bits, Parr's $ gro. $4.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty, $ doz.....$1.00 } 40%
Gem, $ doz.....90c }
O.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....57½&10%
Brass, Round Head.....35%
Bronze, Flat Head.....55&10%
Bronze, Round Head.....55%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Dowel Screws.....35%
Drive Screws, Rogers'.....90%
Iron, Bright F'lat Head.....87½&10%
Iron, Br't R'd & Oval Head.....85%
Iron, Forged Flat Head.....87½&10%
Nickel Plated, Flat Head.....90%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Side Knob Screws.....85%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—

List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....60%

COACH, LAG AND HAND RAIL—

Coach. List, Feb. 14, 1895.....33⅓%
Hand Rail.....33⅓%
Lag Screws. List Jan. 30, 1896. 30&10&5@35%

BENCH, HAND, ETC.—

Bench, Iron, $ doz., 1 in., $2.75; 1¼, $3.00; 1½, $3.50
Bench, Wood, Beech. $ doz $3.00@3.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W...40@40&10%
Jack Screws, Sargent's,..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....25%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise.....25%

Shaft Couplings—

Bradley's:
Buggy, No. 8, $ Set.....$2.25
Surrey, No. 9, $ Set.....$2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....50&10%
Ætna, Steel Nickeled.....70&10%
Barnard's Lamp Trim'rs. $ doz. $3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc...60&10&10@70%
Tailor's Shears.....30&10@40%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1891. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—

Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1897.50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&5%

SLIDING SHUTTER—

Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—

Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb's..$3.15@$3.40
Perkins Steel Side Weight Hind $3.15@$3 40
Perkins Improved Snow.....$ lb 4c

MULE—

Add 50c $ keg to above prices.

OX, WROUGHT—

Ton lots.....$ lb 9c
1000 lb lots.....$ lb 9½c
500 lb lots.....$ lb 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
O.S. Edge.....60@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, $ gross, $10@11.50

Skate Sharpeners—

Eureka...$ doz. $1.75; $ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....$ gro. $15.00@$18.00
3 Knives.....$ gro. $30.00@$37.00
Kraut Cutters.....50@50&10%
Woodrough & McFarlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....60%
Cockeyes.....70&10%
Covert Mfg. Co.....45&20&5%
German, new list .40&10@40&10&10%
Fitch's (Bristol).....50%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%

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Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....⅋ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓&5%
Wood.....⅋ doz. 25&10%

Spoons and Forks—

TINNED IRON—

Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&5&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—

4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—

Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
22% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—

See Door Springs.

Squares—

Disston Try Square and T Bevels, 50&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @50&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated..
Steel and Iron.. } 75&10@75&1 &10%

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ⅋ ℔.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BLACKSMITH'S—

Butterfield's Goods.....35@40%
Gardner.....33⅓&10%
Lightning Screw Plate.....35%
Reece's New Screw Plates.... 25@30%
Waterford Goods.....3.@40%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&2@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....80%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....80%
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—

Bill Nye Brad Box.....⅋ box $4.00
Bill Nye, Jr., Brad Box..⅋ box $3.00
Bonnie Blue.....⅋ box $1.50
Can Opener Carpet Tacks.⅋ gr $4.00
Dble. Point.90&10&10&10&10&10%
Hammer Carpet Tacks...⅋ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " " ...1.50
Little Jack.....⅋ doz. $1.40

Tapes, Measuring—

American.....40&10@50%
Chestermans.....30@3 &5%
Keuffel & Esser Co.....25%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Blacksmiths' Taper.....50&10@60%
Hand and Machine.....50&10@60%
Pipe.....80%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $5.50
F. o. b. cars Cleveland.

Tin, Perforated

Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33⅓&5
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—

National Specialty Co.....30&5%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓&5
Prentiss'.....20@25%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ⅋ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ⅋ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ⅋ doz.....$3.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ⅋ doz.$1.75
Floor Hooks, ¾ in. ⅋ doz. .35
Floor Pulley, Wood Sheave, Fig. 436, ⅋ doz.....$2.00
Hanging Hooks for Double Steel Track, ⅋ doz..... .60
Hanging Hooks for Single Steel Track, ⅋ doz..... .60
Hanging Hooks for Wood Track, 10 in. ⅋ doz..... .45
Hanging Hooks for Wood Track, 14 in., ⅋ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ⅋ doz.$3.00
Malleable Rafter Brackets, ⅋ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ⅋ doz.....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch. ⅋ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ⅋ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 555, ⅋ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ⅋ doz..... .45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5@ 0&10%
Crescent.....7@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3, 3 and 3½.....⅋ 100, $12.00
Shaw's:
Copper Finished.....8½&10%
Lever.....70@70&10%

Traps—

GAME—

Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—

Enterprise Mfg. Co., Mole.....15%
Erie Rat.....40@40&10%
Household.....⅋ gr $10.00
Hotchkiss:
Metallic Mouse,.....⅋ doz. 65c
Improved Rat.....⅋ gross, $12.50
New Rat.....⅋ gross, $12.50
Mouse, Bonanza.....⅋ doz 90c@$1.00
Mouse, Catch-'em-alive ⅋ d z $2.50,15%
Mouse, Delusion.....40%
Mouse, Ideal.....⅋ gr $9.00
Mouse, Round Wire.⅋ doz $1.50, 10%
Mouse, Wood, Choker, ⅋ doz holes 10c@90c
Schuyler Rat Killer, No. 1 ⅋ gro. $13.50; No. 2 ⅋ gro., $15.00
Smith & Egge Mfg. Co:
Superior Rat Trap, ⅋ doz....$15.00
Yankee Mouse Trap, ⅋ doz.. $5.50
Yankee Rat Trap, ⅋ doz.....$11.00

FLY-

Balloon, ⅋ doz $1.25.....⅋ gr. $13.50
Electric Rod.....⅋ gr. $16.50
Globe.....⅋ doz., $3.25; ⅋ gr. $13.50
Harper....⅋ doz., $1.75; ⅋ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓&5
Disston's:
Brick.....30%
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....66&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓&5
Massey's Quick Action.....20@25%
Merrill's.....30&15%
Millers Falls, Mechanics'...net@10%
Moore's.....30%
Parker's.....20@25%
Oval slide..
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....50%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓&5
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel.....30%

Washer Cutters—

Otis A. Smith's.....30&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ⅋ doz. $5.00
Axtell, Lacquered, 42 in. ⅋ doz. $7.00
Axtell, Pol. Brass, 36 in. ⅋ doz. $12.00
Axtell, Pol. Brass, 42 in. ⅋ doz. $15.00

Whips—

American Whip Co. quotations:
Toy Whips, all kinds ⅋ gross. $1.50@$12.00
American Whip Co.:
List price per dozen
I. X. L. Whalebone Driving, 4½ ft., $18.00; 5 ft., $20.00; 5½ ft., $22.00; 6 ft., $24.00; 6½ ft., $27.00; 7 ft., $30.00; 7½ ft., $33.00; 8 ft., $36.00.
American Standard, 4½ ft., $8.00 5 ft., $8.50; 5½ ft., $9.50; 6 ft. $10.50; 6½ ft., $12.00; 7 ft., $13.50 7½ ft., $15.00; 8 ft., 16.50.
Americus, 93 Pen Whip, 6 ft., $6.00
Bull Bone, Half-length Whalebone, 5½ ft., $11.00; 6 ft., $12.00; 6½ ft. $13.00; 7 ft., $15.00.
Eureka, Two-thirds Whalebone 5½ ft., $12.00; 6 ft., $16.50 6½ ft. $18.00; 7 ft., $20.00.
Gents' Light Driving, No. 111, 6 ft.....$6.00
Gents' Light Driving, No. 106, 6 ft.....$5.0
Hand-Made Stocked Java, No. 103.....5½ ft., $3.75; 6 ft., $4.0
Hardware Assortment 10 | American, 75 Whips for.....$50.00
New Name, Stocked Java, Black and Wine Colors.....6 ft., $3.00
Team Whips....⅋ doz $2.0.@$7.50
True Grip, Raw Hide Center, 4½ ft..$6.00; 5 ft., $6.00; 5½ ft., $6.50 6 ft., $7.00; 6½ ft., $7.50; 7 ft. $9.00.

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

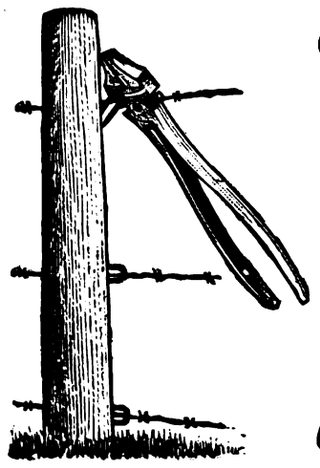
Window Stop Adjusters—

Taplin's "Perfection".....50%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 85&10@85&10 &10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@75&10&5%
Galv., Nos. 0 to 18.75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.. 75&10@75&10&5%
Picture Wire.....New list 85&10%
Steel Music Wire, Nos. 13 to 30, Imported, ⅋ ℔.....60@70c
Stub's Steel Wire.....$6.00 to 2 30%
Tinned Broom Wire, Nos. 13 to 21, ⅋ ℔.....4½c
Wire Clothes Lines, see Lines.

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CRONK'S

Combination Fencing Plier.

This newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters. They are the same heft as the 1½ Maydole Hammer, and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis. . . .

CRONK HANGER CO., ELMIRA, N. Y.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....20&2½&2% cash
Iron.....20&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.60

Wrenches—

Acme:
Bright.....30@30&10%
Heavy.....50%
Nickel.....50&10@60%
Agricultural.....30@30&10%
Aiken's Pocket (Bright)..$2.00@3.20
Alligator.....60@60&10%
Always Ready.....33½&5@40%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Coubination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10&5&5&3%
Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Hercules.....70&10@75%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Lag Screw.....25%
Ratchet.....33⅓%
Socket Bridge.....30%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894,
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....41c
Linseed, City, Boiled, in barrels ₩ gallon.....43c
Out of Town on Spot..₩ gal.....41c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 35@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $23.00@$28.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ℔.....5c
White Lead, American, in Oil, ₩ ℔.....5½@6c
White Lead, Foreign, in Oil, ₩ ℔.....5½@6c
Litharge, Kegs, ₩ ℔.....5½c
Zinc, American, Dry, ₩ ℔....4@4½c

Putty—

In bbls. and half bbls.....1¾@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@—c
In machine bbls.....35@—c

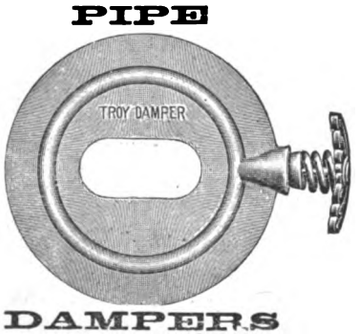
Dry Colors—

Blue, Chinese.....₩ ℔ 37 @40
Blue, Prussian.....₩ ℔ 30 @35
Blue, Ultramarine..₩ ℔ 8 @25
Sienna, Italian, burnt & powd red ₩ ℔ 3½@5 c
Sienna, Italian, raw & powdered...₩ ℔ 3 @4½c
Umber, Turkey, burnt.....₩ ℔ 2½@3½c
Umber, Turkey, raw.....₩ ℔ 2½@3 c
Green, Chrome, Common.....₩ ℔ 5 @12 c
Green, Paris, in bulk, ₩ ℔ 11½@12½c
Indian Red, American.....₩ ℔ 2 @3 c
Indian Red, English.....₩ ℔ 4½@8

Colors in Oil—

Black Coach Japan ₩ ℔..18½@20
Black Coach Japan. in Oil.....₩ ℔ 12 @13 c
Black Drop.....₩ ℔ 7 @10 c
Black Lampblack...₩ ℔ 20 @33 c
Black Lampblack, common.....₩ ℔ 7@15 c
Blue, Chinese.....₩ ℔ 35 @40 c
Blue, Prussian.....₩ ℔ 20 @40 c
Blue, Ultramarine..₩ ℔ 12 @18 c
Brown, Sienna, bur't ₩ ℔ 8 @12 c
Brown, Sienna, raw.₩ ℔ 8 @12 c
Umber, burnt.....₩ ℔ 7 @10 c
Umber raw.....₩ ℔ 7 @10 c
Brown, Vandyke....₩ ℔ 7 @12 c

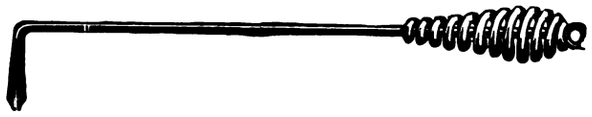
PIPE



DAMPERS



ALASKA, ALWAYS COLD.



STOVE LID LIFTERS,
POKERS,
SHOVELS,
FIRE SETS.

Patentees and Sole Manufacturers,
TROY NICKEL WORKS
ALBANY, N. Y.

"BEYOND CRITICISM."

Wm. Jessop & Sons, New York. [*Steel manufacturers*]: Another five years as proportionately successful as HARDWARE's last will place it almost beyond the criticism of friends or competitors.

"OF INTEREST TO LIVE DEALERS."

Van Voorhis & McNair, Crawford, Neb.: We like the journal very much. It always comes to our desk full of bright, sound matter, that cannot but be of interest to all good live dealers.

"LIKED 'HARDWARE' FROM THE START."

Gibbs Mfg. Co., Canton, Ohio. [*Hardware Specialties*]: We liked HARDWARE from the start, and have no reason to think otherwise now.

"HAVE FOUND IT SATISFACTORY."

The Ideal Mfg. Co., New Haven, Conn. [*Reloading Tools*]: We recognize your medium from time to time, and have found it satisfactory.

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A WARNING.

THIS OFFER HOLDS UNTIL FEBRUARY 1st, 1898,

For all **NEW 1898 SUBSCRIBERS** to "HARDWARE," but it will not take until then for you to discover some remarkable offers in the subjoined premium list.

ALL THE NEWS. **HARDWARE** HARDWARE EXCLUSIVELY.

Needs no introduction to the Hardwareman. He already knows what a valuable adjunct to his business this bi-monthly visitor is, with its reliable "Prices Current," its "Market Reviews" and its general news of interest to the Hardware trade.

FOR $1.00 we will send "HARDWARE" for one year, and the **"WORLD'S ALMANAC"**—an encyclopedia of useful information, boiled down to about 600 pages. It gives statistics of almost every subject likely to be of interest to the busy man. All the news and statistics of the world put into shape for handy reference. Will answer any question you may ask it.

FOR $1.00 We will send **"HARDWARE"** for one year, and **ANY ONE** of the following articles:



A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

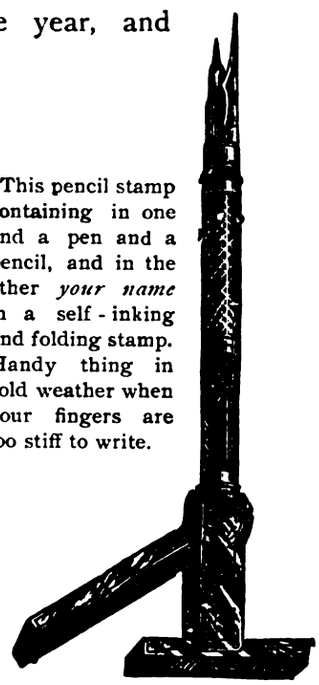


A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.



This elegant self-inking stamp, with *one line* of print *to order*. Your name, your business, your address, or whatever you wish.

This pencil stamp containing in one end a pen and a pencil, and in the other *your name* in a self-inking and folding stamp. Handy thing in cold weather when your fingers are too stiff to write.



Address all communications to——

HARDWARE PUBLISHING CO.,

No. 143 CHAMBERS STREET. - - - NEW YORK.

FOR ORDER BLANK SEE PAGE 64.

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IF YOU'RE NOT MARRIED

to old-fashioned methods, you need "HARDWARE" in your business. If you are, you need it all the more. "HARDWARE" for a year, and any one of the attractive premiums shown on this page, sent prepaid for $1.25, to our . . . .

NEW 1898 SUBSCRIBERS ONLY.

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. . . . . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. The Latest Fad in Jewelry. . . Everybody wears one now for luck. A real four-leaf clover mounted between glass in sterling silver or heavy plate—silver is fashionable—for bangle, watch charm or scarf pin.

4. A Cut of Your Premises, ... 2x1½ inches, for illustrating your advertisements, or printing your envelopes. Send us a photo—we'll do the rest. . . . . .

5. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

6. They Speak for Themselves. . . That is something good signs always do. We send you 100 red, white or black embossed cardboard letters, 2-inch, ready gummed, with which you can make most attractive indoor signs. These letters will adhere to anything. When ordering, specify the quantity of each letter, figure, $-signs and cts. signs you require. Extra hundreds sent for $1.00 per 100. . . . . .

7. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint. This practical Price Book is in almost universal use. . .

HARDWARE PUBLISHING COMPANY,

No. 143 CHAMBERS STREET,

NEW YORK CITY.

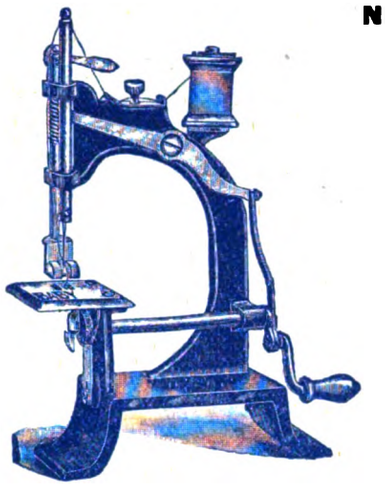
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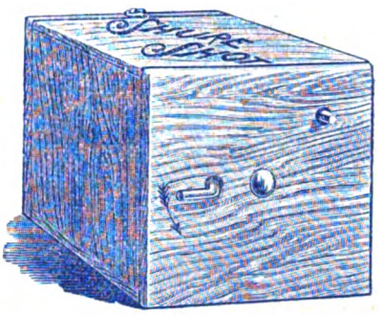
HERE'S OUR HOLIDAY OFFER:

Hardware for a year and any one of the following attractive premiums for $1.50. This offer applies to

NEW 1898 SUBSCRIBERS ONLY.



A perfect Sewing Machine. "The Baby" It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



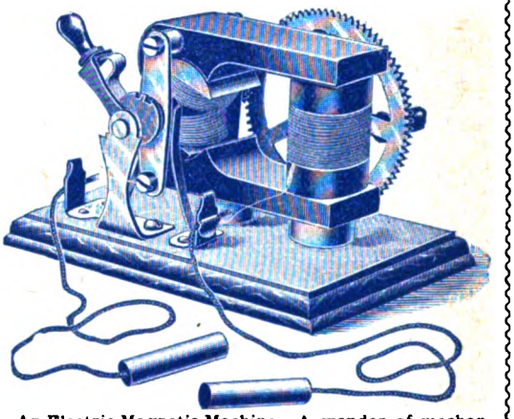
Just think—a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with any higher-priced ones of which it possesses all the best features, including an instantaneous shutter adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewriter—A perfect machine at a low price. Will write 15 to 20 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine—A wonder of mechanical perfection and cheapness. Supersedes the old-style medical batteries, and gives a stronger current without the expense of renewals It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know, and we'll put it there. The first column shows the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.**

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
ART AMATEUR,	$4 00	$4 00
ART INTERCHANGE,	4.00	4.00
ATLANTIC MONTHLY,	4.00	4.00
BOOK BUYER,	1.00	1.50
CENTURY MAGAZINE,	4.00	4.25
CHAUTAUQUAN,	2.00	2.50
CHRISTIAN HERALD,	1.50	1.75
COSMOPOLITAN,	1.00	1.50
CURRENT LITERATURE,	3.00	3.25
DEMOREST'S FAMILY MAGAZINE,	1.00	1.50
ELECTRICAL WORLD,	3 00	3 25
FOREST AND STREAM,	4.00	New Ren. 4.75
FORUM,	3.00	3.25
FRANK LESLIE'S ILLUS. NEWSPAPER,	4.00	4.00
GODEY'S MAGAZINE,	1 00	1.50
GOOD HOUSEKEEPING,	2.00	2.50
HARPER'R BAZAR,	4.00	4.00
HARPER'S MAGAZINE,	4.00	4.00
HARPER'S WEEKLY,	4.00	4.00
HARPER'S ROUND TABLE,	1.00	1.50
ILLUSTRATED AMERICAN,	4.00	4.00

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
INDEPENDENT,	$3.00	$3.25
JUDGE,	5.00	5.00
LADIES, HOME JOURNAL,	1.00	1.50
LIFE,	5.00	5.00
LIPPINCOTT'S MAGAZINE,	3 00	3 00
McCLURE'S MAGAZINE,	1.00	1.00
MUNSEY'S MAGAZINE,	1.00	1.50
NATION,	3.00	3.50
OUTING,	3.00	3.00
OUTLOOK,	3.00	3.50
POPULAR SCIENCE,	2.00	2.25
PUBLIC OPINION,	2.50	2.75
PUCK,	5.00	5.00
REVIEW OF REVIEWS,	2.50	2.75
RURAL NEW YORKER,	1 00	1.50
ST NICHOLAS,	3 00	3.35
SCIENTIFIC AMERICAN,	3.00	3.25
SCRIBNER'S MAGAZINE,	3.00	3.25
SHORT STORIES,	2.50	2.75
TRUTH,	2 50	2.75
YOUTH'S COMPANION	1.75	New Ren. 2.00 2.25

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OLD SUBSCRIBERS AND NEW

May take advantage of the following liberal offers:

1. **"American Hardware Trades Reference Book,"** published by Thomas Publishing Co., with "HARDWARE" for one year, will be sent on receipt of **$1.50.** Those who are already paid subscribers to "HARDWARE" will receive the book, on sending **50c.** This book is a complete directory of the manufacturers of Hardware in the United States. Each manufacturer is classified under the name of every article he makes. The financial rating is given in each case; 8000 Names; 25,000 Headings.

2. **"Ladd's Discount Book,"** with "HARDWARE" for one year, for **$3.00** Single Index, and **$4.00** Double Index. Present subscribers will be credited for one year in advance. If you have to calculate discount this comprehensive work will save many times its price in time, trouble and mental strain. Its comprehensive character may be realized from the fact that it contains nearly 200 pages of positively accurate tables or more than 120,000 computations giving at a glance the net of any sum at all discounts from 1 per cent. to 95 per cent. together with a great range of combinations.

3. **"American Hardware Store,"** with "HARDWARE" for one year, for **$3.00.** The "AMERICAN HARDWARE STORE," containing 450 pages and 500 illustrations, is an exhaustive treatise on the most approved methods used by the successful merchants of this country to arrange, display and sell Hardware. It is edited by R. R. Williams, editor of the *Iron Age*, and published by the David Williams Co., of this city, at $3.00. By a special arrangement, we are enabled to combine "HARDWARE" with the book at the same price. Present subscribers will be credited for a year, in advance of their present subscription.

Fill out Order, and address as below:

ORDER BLANK.

HARDWARE PUBLISHING CO.,

NO. 143 CHAMBERS STREET, NEW YORK CITY

Gentlemen: Inclosed please find _____ dollar and _____ cents for which please send me postpaid "HARDWARE" for one year and _____ offered as a premium.

Name _____

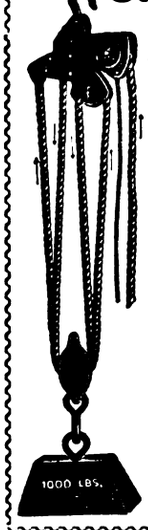
Address _____

N. B.—All premiums, except where otherwise specified, apply to **NEW SUBSCRIBERS ONLY**, and remain in force until Feb. 1, 1898.

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THE BURR PATENT STEEL

Safety Lift Block



A Perfect Self-Locking Rope Tackle Block.

Runs as freely as an ordinary rope tackle block
Holds more securely than a chain block.
Locks instantly and does not cut the rope.
Allows the load to be lowered safely and slowly, the operator using only one hand.
Cannot stick nor jam when the load is to be lowered.

"I have tested the Burr Self-locking Steel Tackle Block and find it the most practical, quick and reliable Safety lift I know of." J. C. DEBES,
Supt. of the C & G. Cooper Co.,
Mt. Vernon, O.

Adopted by the Penna. R.R. Co.
Send for circulars and prices.

. . THE . .
BURR MANUFACTURING CO.,
823 Society for Savings Bldg.,
Cleveland, Ohio, U. S. A.

THE CHAMPION GRATER.

TINNED.

IT WILL GRATE
COCOANUT,
WALNUTS,
ALMONDS
and all Nuts—
CHOCOLATE,
HORSE RADISH,
POTATOES,
CHEESE,
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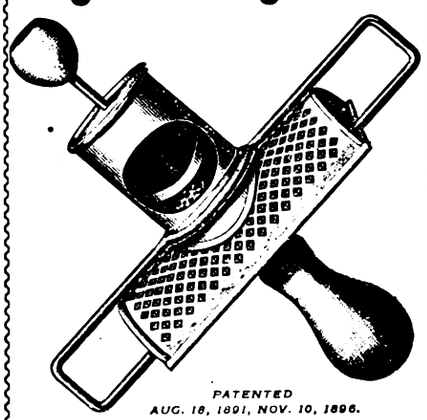
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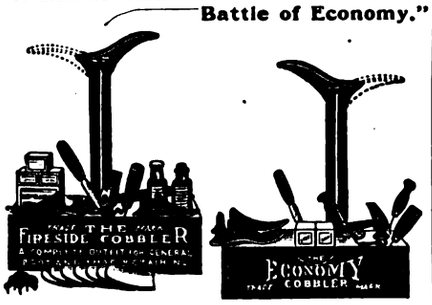
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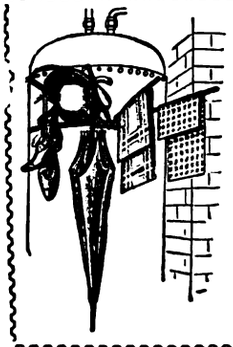
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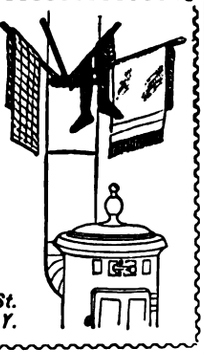
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Hose Pipe.

F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

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New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.

Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.

F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus.

Bramhall Deane Co , New York.

Ice Tools.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
North Bros. Mfg. Co., Philadelphia.
Parker Ice Tool Co., Worcester Mass.

Ice Cream Freezers.

John H. Graham & Co., N. Y.
North Bros. Mfg. Co., Philadelphia.

Insurance.

Mutual Life Insurance Co. New York.

Iron.

Bruce & Cook, New York.

Iron Castings.

C. H. Angus, Albany, N. Y.

Iron, Perforated.

Harrington & King Perforating Co., Chicago.

Jail Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.

C. H. Angus, Albany, N. Y.

Kitchen Sinks.

Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.

National Saw Co., Newark, N. J.

Lace Leather.

John C. Hagan & Co., Manchester, Va.

Ladders.

Bicycle Step Ladder Co., Chicago.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.

John H. Graham & Co., New York.
Edward Miller & Co., Meriden, Conn.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Stoves.

Plume & Atwood Mfg. Co., New York.

Lanterns.

Buhl Stamping Co., Detroit, Mich.

Lathes.

Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.

George Hayes, New York.

Lawn Fountains.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.

Clipper Lawn Mower Co , Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Supplee Hardware Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.

F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Lead.

Bruce & Cook, New York.

Lead Pencils.

Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.

Berger Bros. Co., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.

Tower & Lyon, New York.

Lifters Automatic.

Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.

Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes.

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers,

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
North Bros. Mfg. Co., Philadelphia.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.

Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Milk Cans.

Buhl Stamping Co., Detroit, Mich.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Mirrors, Window.

Bayer & Co., Philadelphia.

Model Making.

Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg Co., Reading, Mass.
Specialty Novelty Co., Lancaster Pa.

Nuts.

Union Nut & Bolt Co., New York.

Office Railings

E T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.

Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.

Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co , Bridgeport, Conn.

Oil Stones.

Lee's Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.

Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.

Standard Fibre Ware Co., Mankato, Minn.

Paints.

Canton Steel Roofing Co., Canton, Ohio.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

Pipe Cutters.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

Planes.

C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.

Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.

Tower & Lyon, New York.

Polish.

John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.

John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.

Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.

E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.

The Scranton & Co., New Haven, Conn.

Presses, Dies, &c.

Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.

Stewart Iron Works, Cin'nati, O.

Pulleys.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.

Boston & Lockport Block Co. Boston and Lockport, N. Y.

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Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.

Alfred Field & Co., New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.

C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Railroad Brasses.

Magnolia Metal Co., New York.

Rails, Barn Door.

McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.

Enterprise Mfg. Co., Philadelphia.

Rakes.

John H. Graham & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.

Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.

See Traps.

Refrigerators.

Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.

P. J. Conroy & Co., Philadelphia.

Reels.

Hartzell Novelty Works, Alliance, Ohio
Philadelphia Lawn Mower Co., Philadelphia.

Registers.

Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.

Brandenburg & Co., Chicago.
A. L. Deane & Co., Denver, Colo.
Root Bros. Co., Plymouth, Ohio.

Rivets.

Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
U. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.

Tower & Lyon, New York.
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.

Berger Bros. Co., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.

Stewart Iron Works, Cin'nati, O.

Rubber Belting.

N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.

N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.

Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Union Nut & Bolt Co., New York.

Sad Irons.

Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.

National Safe Deposit Co., N. Y.

Sand Paper

Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.

Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.

Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.

Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.

Champion Safety Lock Co., Cleveland, Ohio.
Irving Elting & Co., Saugerties, N. Y.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.

E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.

John Chatillon & Sons, New York

Saw Sets.

E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York,

Saw Tools.

E. C. Atkins & Co., Indianapolis, Ind.

Scales.

John Chatillon & Sons, New York.
North Bros. Mfg. Co., Philadelphia.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.

James F. Martin, Frankford, Philadelphia
Underhill, Clinch & Co., New York.

Screens, Perforated Metal.

Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.

Harrington & King Perforating Co., Chicago.

Screens, Wire.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screws.

Franklin S. Miles, Philadelphia.

Screw Cutting Tools.

Holroyd & Co., Waterford, N. Y.

Screw Drivers.

John H. Graham & Co., New York.
Tower & Lyon, New York.
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.

Alfred Field & Co., New York.

Shade Lines.

Samson Cordage Works, Boston.

Shafts.

Hess, Snyder & Co., Massillon, O.

Shears and Scissors.

Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.

Boston & Lockport Block Co., Boston and Lockport, N. Y.

Sheet Brass.

Waterbury Brass Co., New York.

Sheet Steel.

Dunbar Bros., Bristol, Conn.

Shelf Boxes.

W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.

Atlas Mfg. Co., New Haven, Conn.

Shovels.

A. J. Phillips Co., Fenton, Mich.
Troy Nickel Works, Albany, N.Y.
Underhill, Clinch & Co., N. Y.

Signs.

Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.

Fulton Stamp Works, New York.

Silver Ware.

Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.

New York Belting & Packing Co., New York.

Sink Cleaners.

John W. Sudlow, Brooklyn, N. Y.

Skates.

Barney & Berry, New York, Boston, Philadelphia, Springfield.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.

Union Hardware Co., Torrington Conn.

Skewers.

John Chatillon & Sons, New York.

Skylights.

George Hayes, New York.

Slaw Cutters.

Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.

Ferrosteel Co., Cleveland, Ohio.

Solder.

Bruce & Cook, New York.

Snow Shovels.

A. J. Phillips Co., Fenton, Mich.

Spades.

Underhill, Clinch & Co., New York.

Spark Guards.

Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.

Bruce & Cook, New York.

Spoke Shaves.

Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.

Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.

Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.

Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Stamps.

Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.

E. T. Barnum, Detroit, Mich.

Steel.

Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.

Canton Steel Roofing Co., Canton, Ohio.

Steel Hinges, Spring.

Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.

Harrington & King Perforating Co., Chicago.

Stencils.

Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.

Bicycle Step Ladder Co., Chicago.

Stocks and Dies.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.

Hartzell Novelty Works, Alliance, Ohio.

Stoves.

Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Plume & Atwood Mfg. Co., New York.

Stove Mittens.

Diamond Hardware Co., Boston.
Paras & Paras, Troy, N. Y.

Stove Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Stove Trimmings.

Logan & Strobridge Iron Co., New Brighton, Pa.
Troy Nickel Works, Troy, N. Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Stove Trucks.

See Trucks, Stove.

Stones, Scythe, Oil, Etc.

Cleveland Stone Co.' Cleveland, O.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.

Alfred Field & Co., New York.

Structural Iron Work.

Stewart Iron Works, Cin'nati, O.

Tackle Blocks.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.

Rockford Tack Co., Rockford, Ill.

Tack Pullers.

Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.

Tailors' Irons.

Union Heater Supply Co., Detroit, Mich.

Tape Measures.

Alfred Field & Co., New York.
Waterbury Brass Co., New York.

Taps and Dies.

Holroyd & Co., Waterford, N. Y.

Targets.

Cleveland Target Co., Cleveland, Ohio.

Tiling.

New York Belting & Packing Co., Ltd., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Tinning.

C. H. Angus, Albany, N. Y.

Tin.

Bruce & Cook, New York.

Tin, Perforated.

Harrington & King Perforating Co., Chicago.

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Tin-Plate.
Bruce & Cook, New York.

Tires Rubber.
New York Belting & Packing Co., New York.

Toilet Paper.
A. P. W. Paper Co., Albany, N. Y.

Tools.
Armstrong Mfg. Co., Bridgeport, Conn.
E. C. Atkins & Co., Indianapolis, Ind.
Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Th. M. Hass, New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Traps.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.
Specialty Novelty Co., Lancaster, Pa.

Trowels.
E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.
Boston & Lockport Block Co., Lockport, N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.

Tubes, Seamless Drawn.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.
Wilmot & Hobbs Mfg. Co, Bridgeport, Conn.

Valves.
Berger Bros. Co., Philadelphia.
Kendrick Valve & Washer Co., Syracuse, N. Y.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Ventilators.
Pancoast Ventilator Co, Inc., Philadelphia.

Vises.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co, New York.
Howard Iron Works, Buffalo, N. Y.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.
Sprague Umbrella Co., Norwalk, Ohio.

Washers.
Clark & Cowles, Plainville, Conn.
Kendrick Valve & Washer Co. Syracuse, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Union Nut & Bolt Co., New York.

Washing Machines.
W. R. Harrison & Co., Massillon, Ohio.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.
E. Imhauser, New York.
Nanz & Co., New York.

Wax Tapers and Torches.
T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Wheelbarrows.
Akron Cultivator Co., Akron, O.
Arnold Metal Wheel Co., New London, Ohio.
Bryan Mfg. Co., Bryan, Ohio.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

Window Guards, Punched.
Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.
Samson Cordage Works, Boston.

Window Screens.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

Window Stop Adjusters.
Taplin Mfg. Co., Forrestville, Ct.

Wire, Manufacturers.
Bruce & Cook, New York.
Dunbar Bros., Bristol, Conn.
Alfred Field & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago San Francisco.
The Malin & Co., Cleveland, Ohio.
Waterbury Brass Co., New York.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Cloth.
E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

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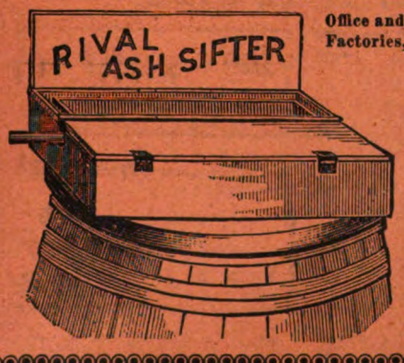
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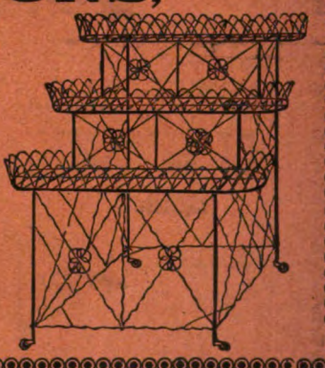
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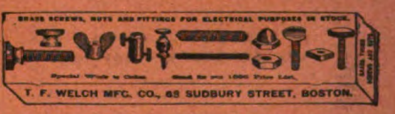
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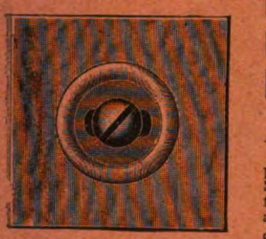
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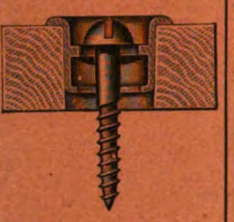
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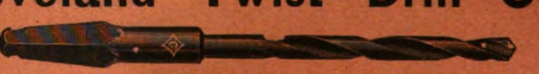


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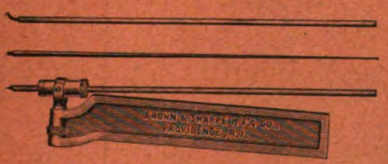
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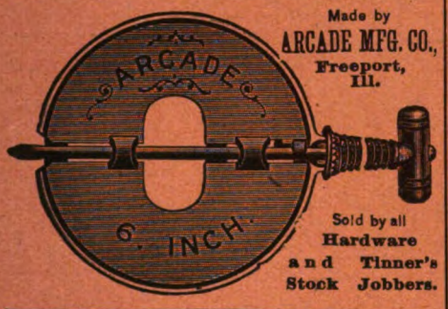
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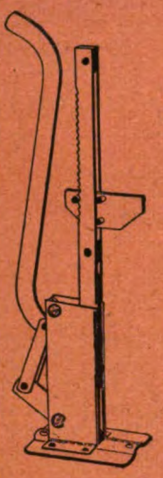
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In great variety and of best quality.
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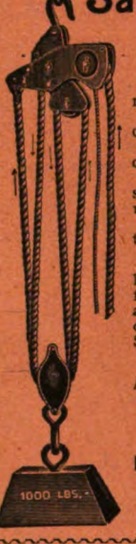
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Pulls the Cork out of the Bottle.
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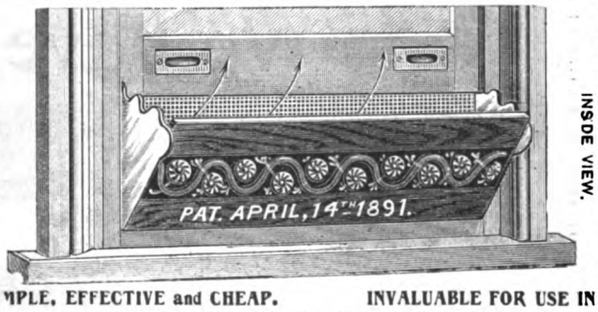
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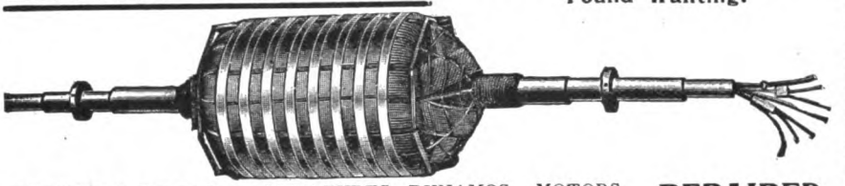
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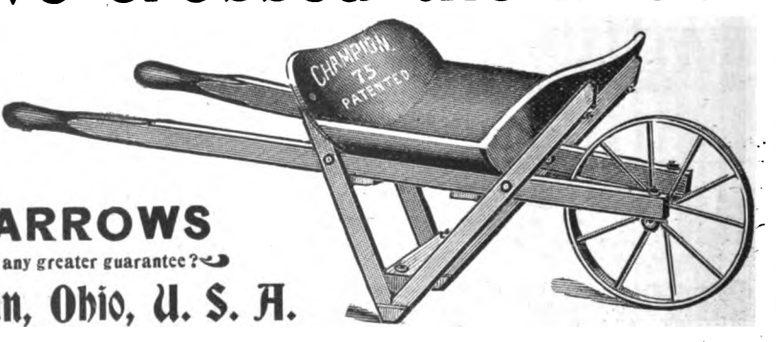
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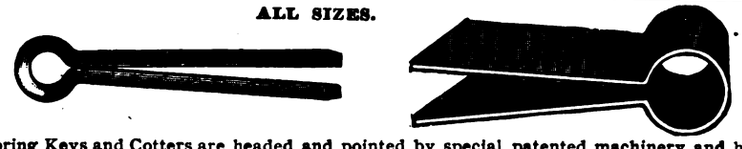
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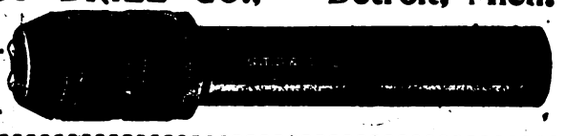
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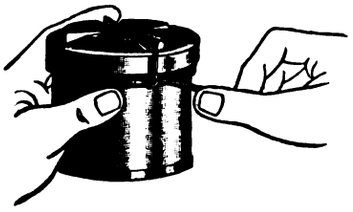


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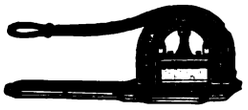
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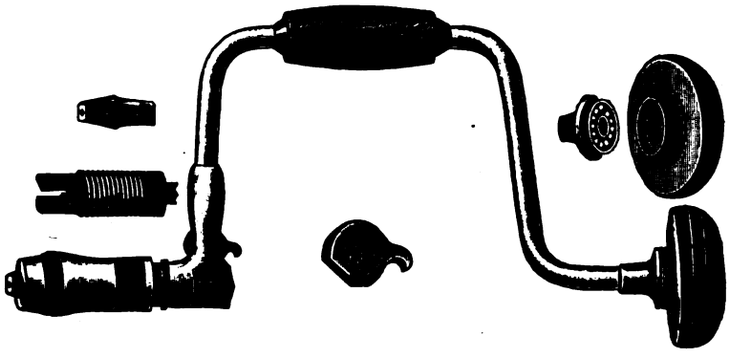
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THE IMPROVED PATENT RATCHET BRACE, BEST THING ON THE MARKET.



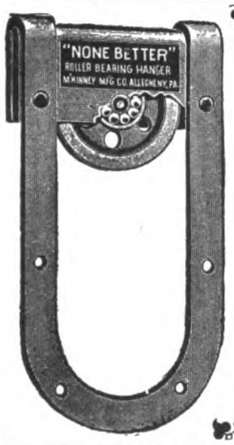
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STEEL DOOR HANGERS.

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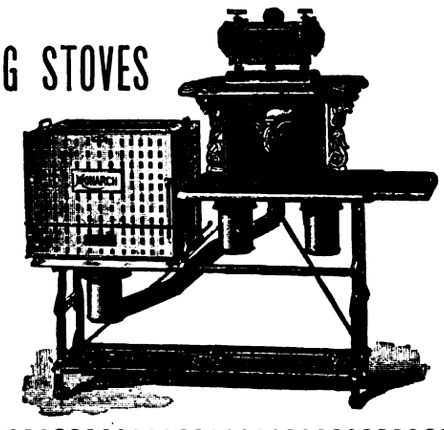
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For Hot Weather,
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Cheap Stoves,
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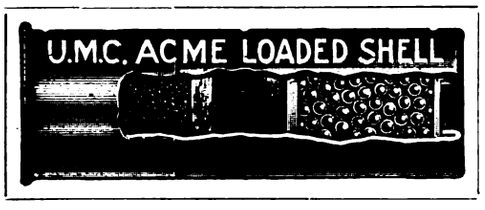


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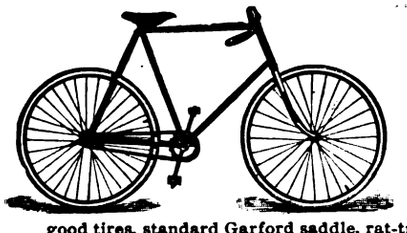
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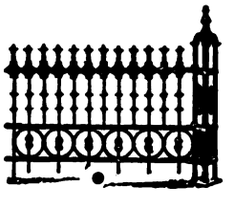
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BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

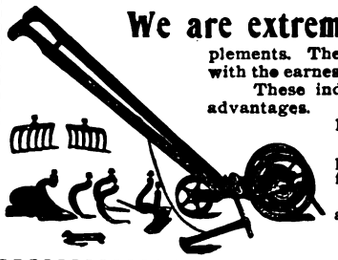
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Price Lists sent on application.

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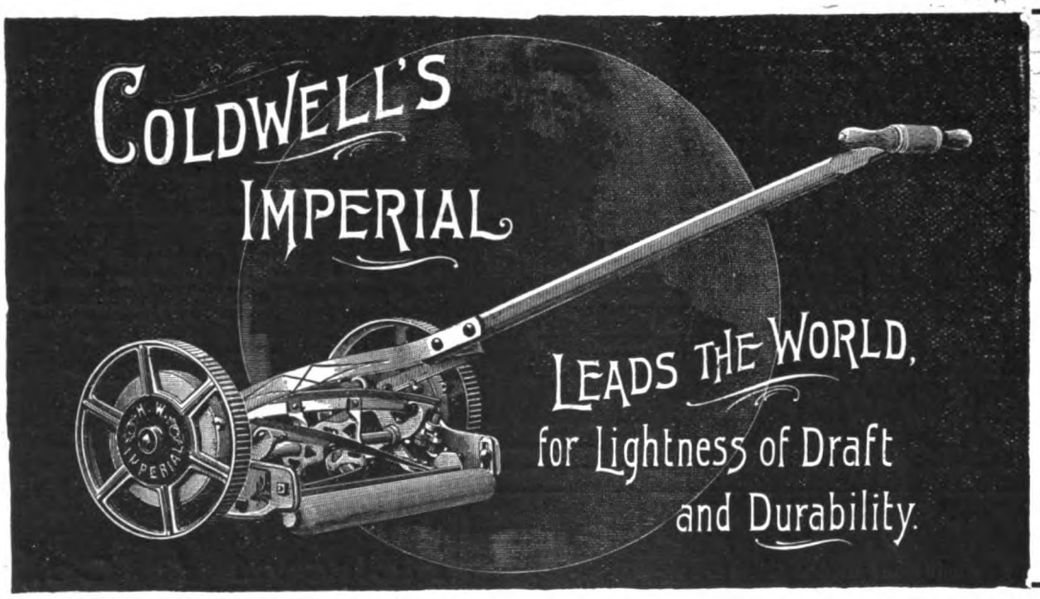


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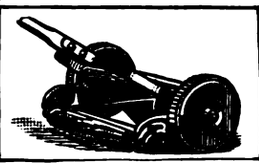
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HIGH GRADE LAWN MOWERS.

6½, 7, 8, 9¼, 10 INCH WHEELS.

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THE WORLD'S CHOICE ...THE... Renowned Unrivalled GENUINE PHILADELPHIA MOWERS



10 STYLES OF OPEN CYLINDER MOWERS.

INCLUDING OUR STYLE A ALL STEEL MOWER.

PHILAD'A LAWN MOWER CO.

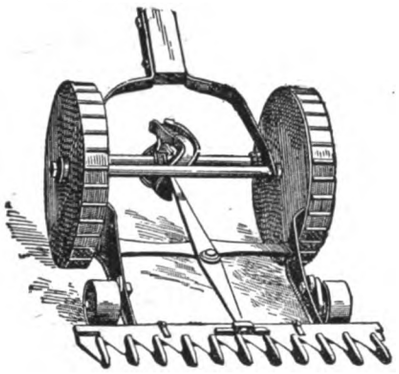
3107 and 3109 Chestnut St.,

PHILADELPHIA, PA., U. S. A.

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The Mower...

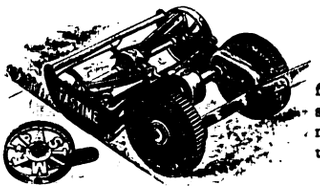
That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**



CLIPPER LAWN MOWER CO.,

. . . NORRISTOWN, PA.

PASTIME LAWN MOWER and TRIMMER.



IMPROVED 1898 MODEL.

This front cut mower trims to within ¼-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

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We have the Best Weed Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

TRUCKS OF ALL KINDS.

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MACHINIST.

Corner Exchange and Water Streets, AKRON, OHIO.

General Machine Work, Molds for Bicycle Tires, Air Goods, Druggists' Sundries, Matrices for Hard Rubber Goods, Die Sinking, Hydraulic Presses, Special Machinery, etc. Estimates cheerfully given. Correspondence solicited. Work promptly done.

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STEEL SNOW SHOVELS

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OLIVER AMES & SONS CORPORATION.

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BUILT ON HONOR.

A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

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Wise dealers will buy Lawn Mowers that will give their customers satisfaction not only for one year but for years to come.

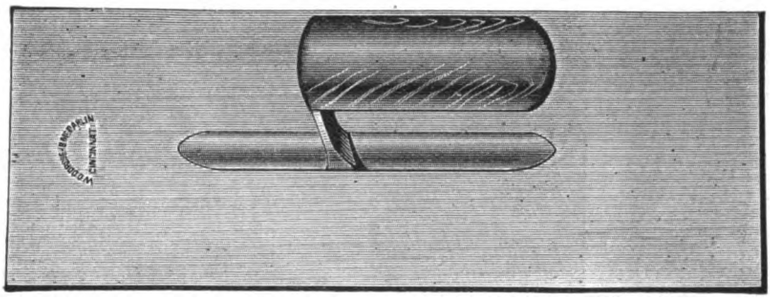
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THE NEW QUAKER CITY,
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THE GREAT AMERICAN,
THE NEW DEPARTURE,
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SUPPLEE HARDWARE CO.,

Market and Fifth Streets, **Philadelphia.**

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THE ONLY ORIGINAL

WOODROUGH & McPARLIN (CINCINNATI) PLASTERING TROWEL

——IS MFD. BY——

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Wrought Steel
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All Sizes and
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These Butts are better than the ordinary kinds. Made only by

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Factories, READING, PA.

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F. E. KOHLER & CO, Canton, Ohio

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Owner of Mark Wilkes.



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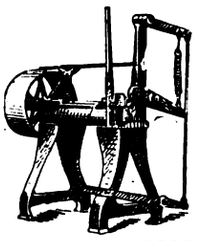
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The best made.

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Special Shapes and sizes made to order. We also manufacture Stones specially adapted to Jewelers', Watchmakers', Carvers' and Lithographers' Trade.

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IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.

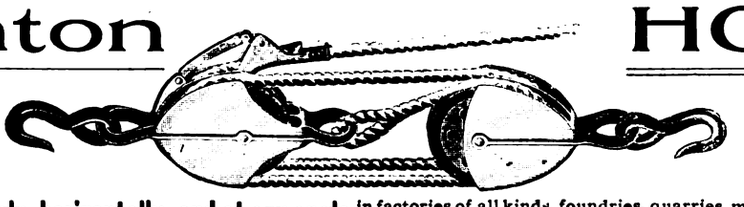


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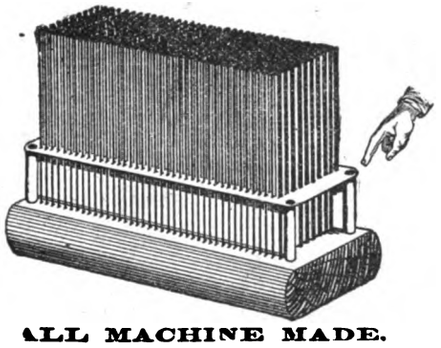
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SATISFACTION GUARANTEED OR MONEY BACK.

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THE NEW HAMMOCK.
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We still lead the world in variety of colors, styles and sizes in our elegant lines of

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Infringers are being prosecuted.

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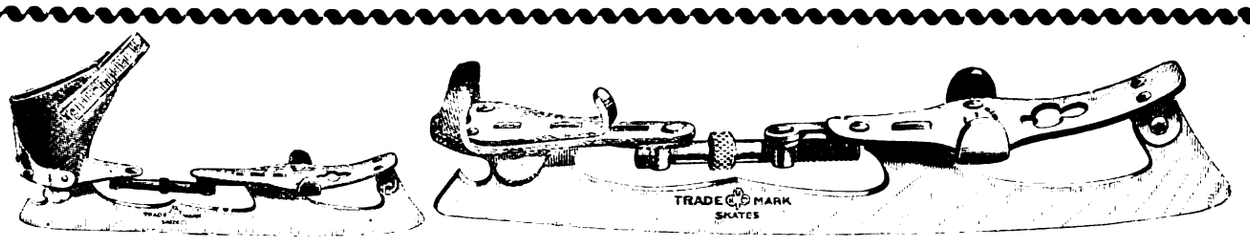
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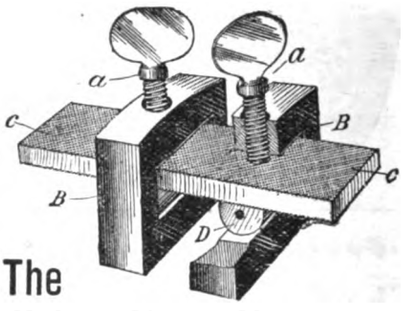


UNION CLUB SKATE

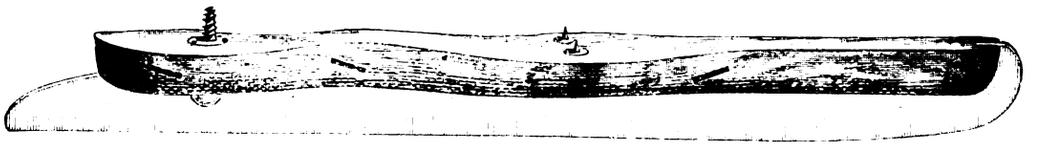




HOCKEY SKATES.



The Union Skate Sharpener.



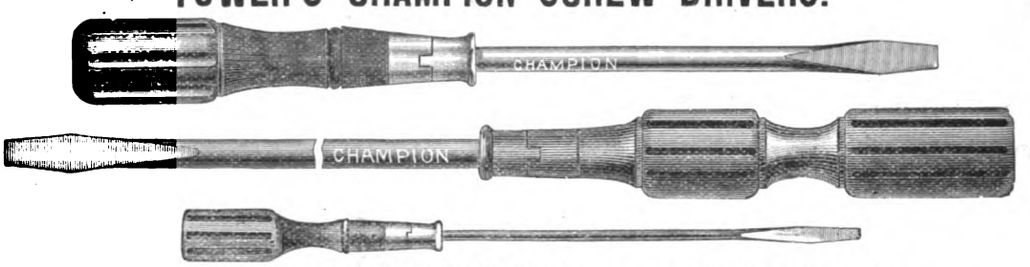
DONOGHUE RACING SKATE.

MANUFACTURED BY **UNION HARDWARE CO.,**

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

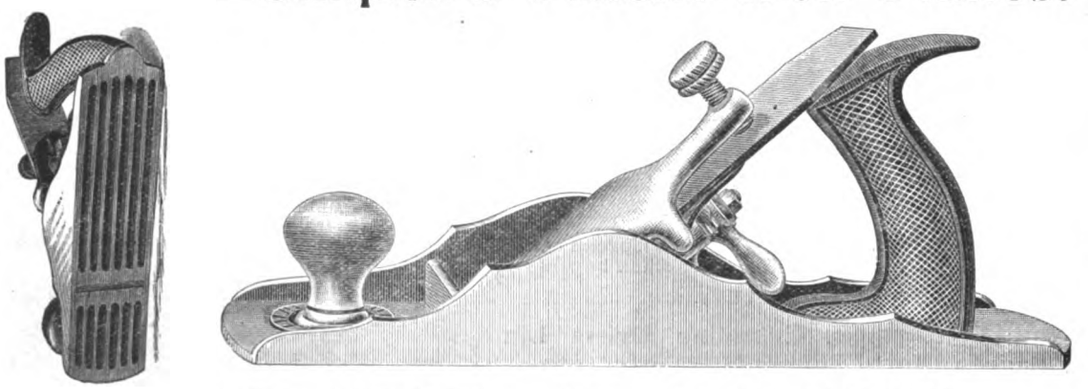
CARPENTERS and MACHINISTS' TOOLS.

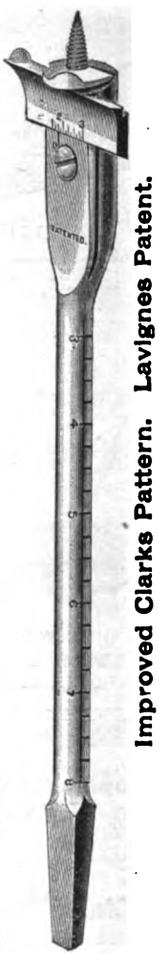
TOWER'S CHAMPION SCREW DRIVERS.



See that the word "CHAMPION" is on each Screw Driver.

Chaplin's Patent Iron Planes.





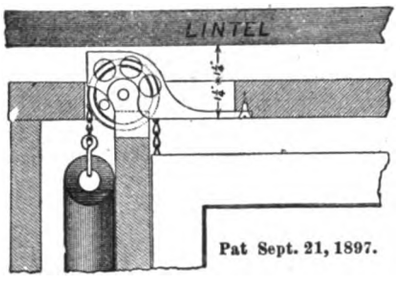
Improved Clarks Pattern. Lavignes Patent.

TOWER & LYON,

95 Chambers St., New York City.

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QUEEN SINGLE FRAME PULLEYS.



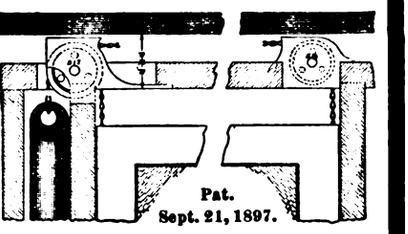
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No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

Architects will note accompanying cuts. They represent 2½-inch pulleys and only require 2½ inches head room from top of sash.

QUEEN MULLION FRAME PULLEYS.



ONE WEIGHT BALANCES THE SASH.

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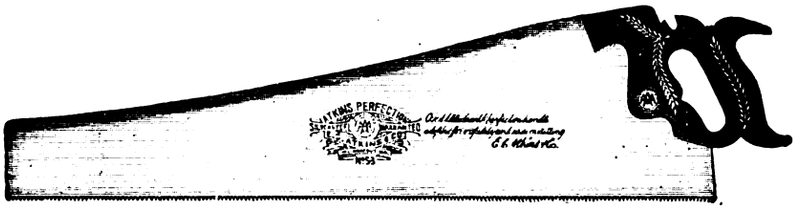
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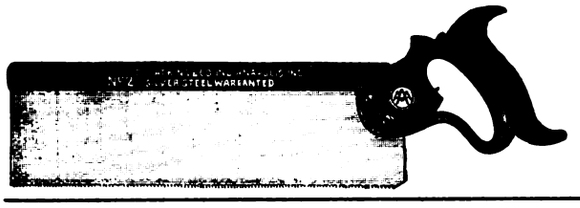
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WE MANUFACTURE EVERY KIND OF SAW USED.



SILVER STEEL.
FINE TEMPER.
BEST WORKMANSHIP.
THE BEST SAWS MADE

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STEEL BALLS.

WE ARE THE LARGEST PRODUCERS OF STEEL BALLS IN EXISTENCE.

Automatic Machines for turning and finishing Cones, Cups, Screws, Nuts, Nipples, etc. Our machines are used extensively by nearly every prominent cycle manufacturer in this country and Europe.

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We have in stock and will make to order Seamless Heads, Hangers and Lugs, Cups, Cones, Crowns, Fork Ends, Brace Tips, etc., etc., etc.

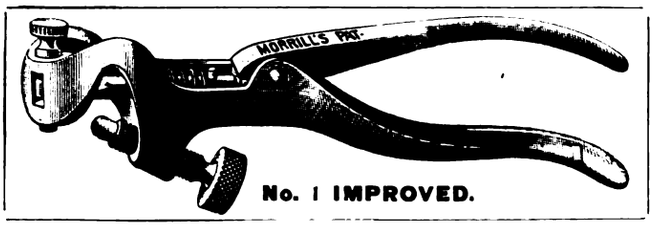
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FOREIGN OFFICE, 25 Albert St., Birmingham, England.

MORRILL'S Perfect Saw Sets,

Bench Stops, Punches, Cutting Pliers and Seal Presses.

TRADE ⊕M⊕ MARK
Registered, Pat. No. 20,572.
This Trade Mark is stamped on all Hardware Specialties of my make.



No. 1 IMPROVED.

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This Trade Mark is stamped on all Hardware Specialties of my make.

For Hand, Band and Jig Saws, from the widest made down to 1-2 inch. The Sets are too well known for me to enlarge on them.

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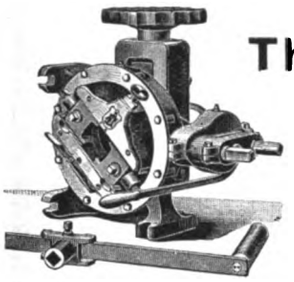
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Without a line of

The ARMSTRONG



New No. 0. Threading Machine.

PIPE THREADING AND CUTTING OFF MACHINES, ADJUSTABLE STOCKS and DIES, WRENCHES, PIPE VISES, PIPE CUTTERS, CLAMP DOGS.

THEY ARE ALL "STANDARDS" AND NEV DISAPPOINT. CATALOGUE!



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——NEW YORK OFFICE: 139 CENTRE STREET.——

BRIGHT ATTRACTIVE CUTS OF HARDWARE GOODS.

ESTABLISHED 1885

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Designing and PHOTO-ENGRAVING

BY ALL MODERN METHODS

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PROMPT! RELIABLE! PRICES O.K.

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ELECTROS, HALFTONES

BERGER BROS. CO., INCORPORATED.

Succeeding BERGER BROS., January 3, 1898.

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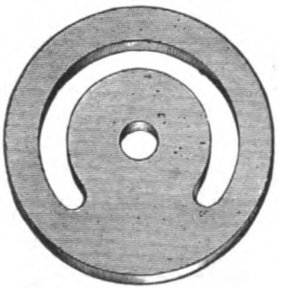
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Kendrick Valve and Washer Co.

Valve and Plunger Leathers.

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Special Leather Washers.

Tubular Well Cups. Iron and Brass Cylinder Cups,

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Proposals.

ENGRAVING AND PRINTING SUPPLIES.

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CLAUDE M. JOHNSON,
Director of Bureau.

The Columbia Safety Self-Retaining

DUMB WAITERS,

ELEVATORS,

Cellar Lifts

...AND...

SPEIDEL'S ECONOMIC SAFETY HOISTS.



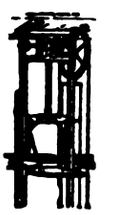
If you haven't tried the **Columbia Dumb Waiters** give them a trial. It will cost you nothing, as you can return them if not satisfactory.

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Improved Quick and Easy Rising Steam, Electric and Hand Power

ELEVATORS



Send for Circulars.

Kimball Bros. Council Bluffs, Ia.

No. 1013 Ninth Street.

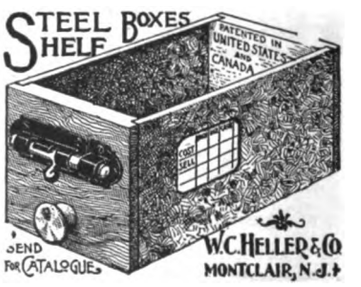
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Simple; smooth-running; noiseless. All sizes, capacities and styles. Hardware dealers can sell them.

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SHELF BOXES { MADE TO ORDER. ESTIMATES FURNISHED.

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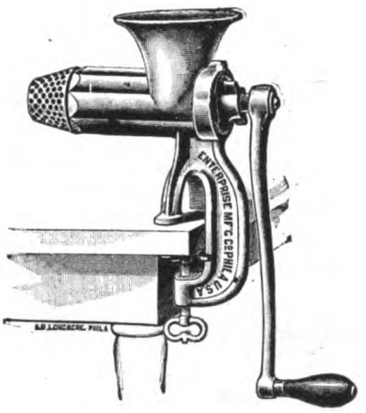
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ENTERPRISE
MEAT CHOPPERS

TINNED

OUR NEW MODEL



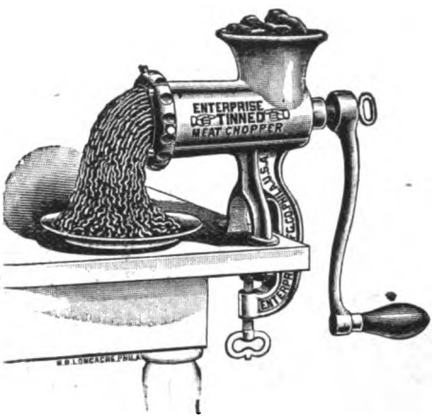
New Model

No. 2,	Clamps to table,	$1.75
No. 4,	" "	2.25
No. 6,	" "	2.75
No. 8,	" "	4.00

Standard Model

No. 5,	Clamps to table,	$2.00
No. 10,	" "	3.00
No. 20,	" "	5.00
No. 12,	Screws to table,	2.50
No. 22,	" "	4.00
No. 32,	" "	6.00

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Reasonable arrangements can be made. WRITE ME TO-DAY.

C. H. Angus, . Albany, N. Y.

Mfr. of Castings; Nickel and Brass Plating, Metal Pattern Maker, etc.



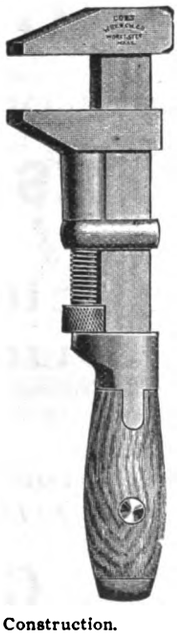
L. COES'

Genuine Improved

KNIFE HANDLE

PATENT

Screw Wrenches.



MANUFACTURED BY

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WORCESTER, MASS.

Established in 1839. Registered April 9, 1895.

Patented Dec. 15, 1891. Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞ Straight Bar, Extra Long Nut for Screw in Jaw. ☜

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You take no risk on the quality. We make only the best!



Sand Papers IN **Reams and Rolls** { Flint Paper, Garnet Paper, Emery Paper, Emery Cloth

HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

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730 MARKET STREET, PHILADELPHIA
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The Arcade File Works

Established 1842.

WEED'S IMPROVED CUT — GUARANTEE SEAL — ALL FILES ARE FULLY GUARANTEED — SPECIAL TEMPER

Improved Increment Cut

THE BEST IN THE WORLD.

ANDERSON, IND.

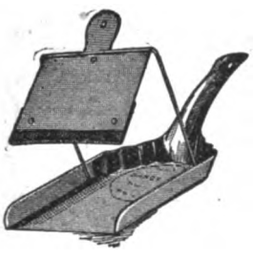
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. . . A perfect and complete



Household Specialty.

A Sink Cleaner and Shovel Combined. . .

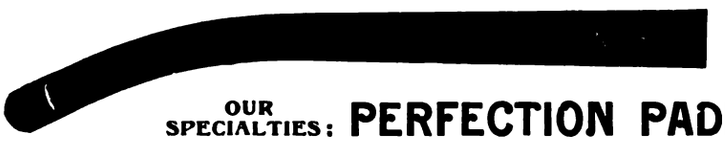
Tidy housekeepers will throw away the dirty sink broom and buy the Dandy Sink Cleaner on Sight. . . . . .

TRY IT AND BE CONVINCED.

For sale by all Wholesale Hardware Dealers, and by the patentee and manufacturer,

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OUR SPECIALTIES: PERFECTION PADLOCKS,

All sizes, ½ inch to 2½ inches.

PROTECTOR REVOLVERS, THE GREATEST NOVELTY OF THE AGE.

Compressed Seam Fork Sides & Handle Bars. CORRESPONDENCE SOLICITED.

NEW DEPARTURE CYCLOMETER.



. . . Non-Corrosive . . .

CHALLENGES THE WORLD FOR

Simplicity,
Durability,
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DON'T FAIL TO LIST IT---YOU'LL SURELY NEED IT.
ELECTROTYPES READY---FURNISHED FREE.

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Deposit your Securities and Valuable Papers and Silverware in the new vaults of

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THE MUTUAL LIFE BUILDING,
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Safes $5.00 per Annum and Upwards.

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The Mutual Life Insurance Company

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RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

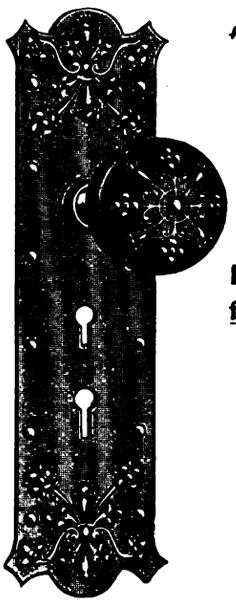
Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
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And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

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In Old Copper finish is a favorite for

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Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of Builders' Hardware,

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

NEW YORK, 80 Chambers St., or 94 Chambers St., (UNDERHILL, CLINCH & CO.)
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CHICAGO, 36 Dearborn St.
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PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long

and TWENTY-FIVE CARBON Steel will last only so long

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

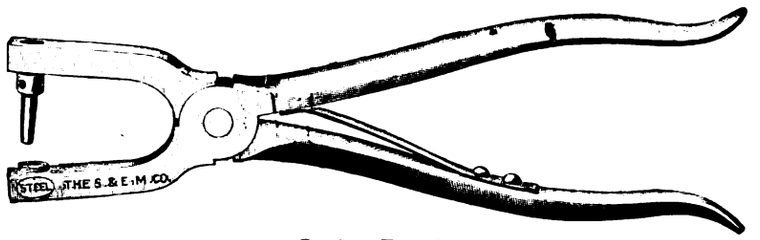
The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory coroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

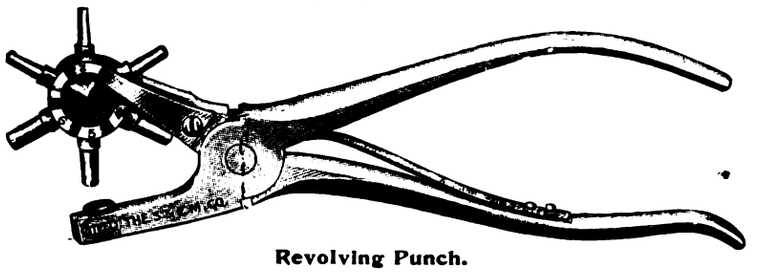
The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.

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Spring Punch.



Revolving Punch.

IF YOU SELL THESE GOODS

You can get those of the best——

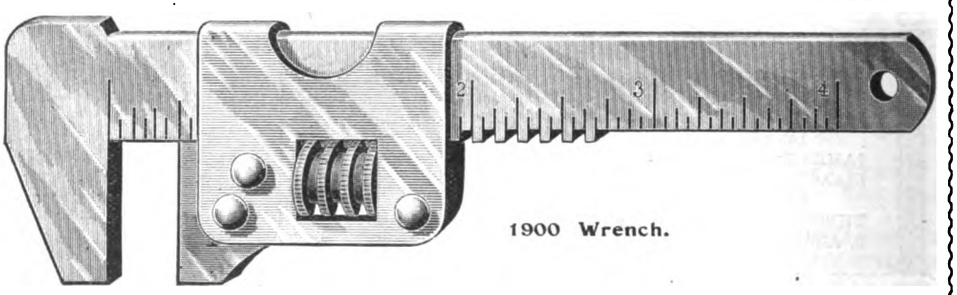
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At low prices from

THE SMITH & EGGE MFG. Co., BRIDGEPORT, CONN.

NEW YORK AGENT,
J. J. HALPIN,
62 Reade St.

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W. E. TRULL,
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1900 Wrench.

TRADE MARK.



A. CHIPMAN, Treas.

GOULD'S
STEAM & WATER PACKING

Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
THE GOULD PACKING CO.,
EAST CAMBRIDGE, MASS.

TAKE AN AGENCY FOR THE
Royal Polished Steel Roaster and Baking Pan.

BIG PAY! BEST MADE!



Self-Basting. Saves 20 per cent. that passes off in steam when roasted in an ordinary pan. *Made of polished steel,* in 7 sizes, including *inside pans* and *grate bars* in all sizes. *Bakes finest bread.*
For terms, address
THE ROYAL POLISHED STEEL ROASTER CO., Troy, O., U. S. A.

ESTABLISHED 1835.

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Sole Agents:
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Butchers' Knives and Tools.
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Pocket Knives, &c.
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85 to 93 Cliff Street, NEW YORK.

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AKRON, OHIO.

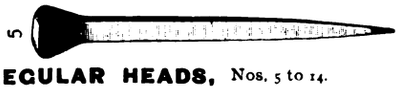
Special Machinery

Estimates made on all kinds of Special Machinery, Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates. . . . . .

TURF NAILS, Nos. 1 to 5.



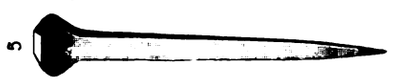
FRENCH HEADS, will fill any shoe punched or creased. Nos. 3 to 8.



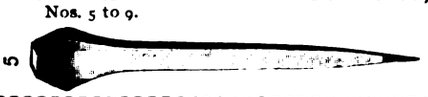
REGULAR HEADS, Nos. 5 to 14.



CITY HEADS, for shallow creased shoes. Nos. 5 to 9.



COUNTER HEADS or **FROST NAILS,** Nos. 5 to 9.



PUTNAM NAIL COMPANY

NEW DEPARTURE.

In consequence of the action of the National Hardware Association, we now propose to sell direct to the general jobbers of the country. . . . . .
All restrictions have been removed as to quotations to be made by the trade from ocean to ocean. . . . .
The high quality of the Putnam Nail makes it an easier seller at an advanced price over nails made by rolling and shearing. . . . . .
In case local dealer does not handle our goods, address

The Putnam Nail Co., ***Neponset, Boston, Mass.***

235 Lake St., Chicago, Ill.
12-14 Drum St., San Francisco, Cal.

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HARDWARE

VOL. XVI. JANUARY 25, 1898. NO. 8.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 143 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING. CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

Subscription, $1.00 per year. Subscription, Foreign, $1.50 per year.

L. E. MITCHELL, - - President.
JAMES H. KENNEDY, - Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRED. A, CATON, - - Asst. Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

The month of January has nearly passed, many plans for the year's business have been formulated, fervent hopes for increased profits and lessened expenses are being developed in the brainy minds of commercial leaders, and upon every hand are found noticeable those harbingers of a prosperous spring trade, exhibited only too visibly, in a decreasing indebtedness upon every hand from the vigorous farmer with an eye on increased productions, to the ambitious merchant planning a spring campaign of greater extension.

Combined with this will be found increasing activity in the fertile fields of usefulness covered by the manufacturer and his representatives, so that the hearts of these advance agents of 1898 prosperity will be gladdened by innumerable orders which last year failed to materialize early enough although sanguinely expected.

The trade of the winter has maintained a steadiness which inspires the feeling that we have at last reached the end of industrial uncertainty. Manufacturers see in these hopeful conditions the improving signs of the times. Industries, the prices for whose commodities have been for a long time abnormally low, are lending a glad ear to the promoter who firmly believes that in a combination and concentration of industrial energy can be established a more certain basis of sustained profits, than if each manufacturer was turned loose on the fields of competition to pick up what he could get only by underbidding a manufacturer whose resources are equal to his own, while his wish for a dividend is even greater.

Prices quoted by Hardware manufacturers have recovered from that depressing condition that creates strikes and closes factory doors, and although low are in a favorable state for the encouragement of stock orders, a state of things the leading makers of Hardware would welcome only too gladly.

It will need only a glance at our columns giving a review of current changes and corrections, to notice how sedulously the manufacturers are preparing for the active demand which, unless all signs fail, will prove the most prominent characteristic of business during the year upon which we have now entered.

Is It the Best Way?

Judging by the action taken by the National Board of Trade of Cycle Manufacturers for this year in denying to the dealers the usual Annual Cycle Show, it is evident that the local dealers especially are not satisfied with the trend of affairs that is noticeable in cycle matters at the present time, with reduced commissions and less help from general advertising.

It strikes an observer as very peculiar that a concentration of advertising publicity to a few channels is being attempted by the makers, recognizing as they do that publicity is expensive, and more economical methods must prevail when lower list prices are promulgated and made indispensible, and that, in addition to this they should also omit the one great advertising feature of the trade so popular when the possible margin of profit was much greater—that of the grand cycle show, which, lasting a week, always succeeded in entertaining and stimulating buyers to a number running into hundreds of thousands.

The dealers realize that without the adventitious aid of modern advertising methods, it will be difficult to dispose of a sufficient number of cycles to reap a remunerative business; and they argue that the leading makers doubtless wish to avoid the big show which is so apt to make equally prominent the product of some smaller dealer, whose advertising expenditure may be larger in proportion than his output would encourage.

There are two horns to this dilemma, and one should be sufficient to cause more than the customary anxiety.

In the absence of the advertising show it would seem indispensible that other forms of exploiting should become essential in order to keep the riders in touch with the dealers distributiug the product. The fact as stated that excessive advertising in the columns of so many cycle journals has been found irksome, expensive and unproductive of results, should not form a reason why the agents should be deprived of the assistance of more reasonable publicity being given, or why the manufacturers should deprive themselves of the natural opportunity to create the agents who are so necessary for the proper distribution of an annually increasing production.

When one reflects how essential it is this season to call proper attention to the many new devices now before the riders of the country, the important changes in construction adopted by many makers, in order to make a more economically constructed wheel; with driving gears of an unfamiliar kind, intended to supersede styles of propulsion upon the excellence of which every rider considers himself an expert; with a degree of perplexity and uncertainty surrounding the industry for this year in excess of any previous time, a cycle show would have been a great and important step to take, in the way of informing the would-be buyer, one in which only the great possibilities of a combination of exhibitors, can in a single week, impart six months of instruction and desirable information.

The indications are, that in the absence of an annual

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cycle show, the importance of which was essentially the one prominent motive underlying this cycle organization, it is just possible that the National Board of Trade will eventually disintegrate. The apathy manifested in its movements by some of the manufacturers formerly so prominent, would indicate this, and that a number of separate organizatians whose interests would be identical, covering the individual component lines of saddles, sundries, lanterns, bells, etc., would eventually spring into existence to take its place. It is altogether likely that before another season comes around, it being too late to attempt it this year, an organization will be perfected that will comprise in its membership every local dealer handling bicycles. This organization, if perfected, will develop a power that will make future seasons prove more profitable than either of the past few seasons the trade has experienced.

Ready to Represent American Houses.

Edward I. N. Waagen, a native of Christiania, Norway, but who has made himself thoroughly acquainted with the English language and American business methods, is desirous of locating once more in his early home, as the representative of American business interests. He is highly recommended as a very able, industrious business man, and is related by family connection with the well-known house of C E. Sontum & Co. Mr. Waagen received a thorough education in the schools of his native town, and had several years' business experience at the same place. Being desirous of acquiring broader business views, and a more perfect knowledge of the English language, he decided to spend some years in America. Coming to this country, he entered the Mount Hermon School in Massachusetts, after which he obtained a position with the American Tobacco Co. of Canada, and has been promoted through various grades during the past four years, until he occupies a responsible position to-day.

Mr. Waagen has just returned from a trip to Europe, and declares that in his belief a great market can be obtained for American goods if their excellent qualities could be intelligently pointed out to European buyers. He regards it as essential that these buyers should be put in direct connection with reliable houses on this side, by a man who at the same time would properly look after the interests of the American manufacturers. He is inclined further to the belief that he could make proper use of his time and experience as a European representative for some large American exporting firm. Any concern which is looking out for a man of this character, would do well to correspond with Mr. Waagen, and would, no doubt, find him amply fitted for such representation. He is ambitious, energetic and intelligent, and has received from leading concerns in the Old World recommendations of the highest character. A letter addressed to him, care of this office, will be put directly into his hands.

The Hardware Club.

At a meeting of the board of governors of the New York Hardware Club, held on January 13, 1898, the following gentlemen were unanimously elected to membership:

Eben Miller, No. 65 Duane Street.
William H. Kenyon, No. 150 Nassau Street.
James S. Coleman, Croton-on-the-Hudson.
Henry Ivison, No. 31 Washington Place.
Harold Roberts, No. 150 Nassau Street.
Tyler L. Redfield, No. 409 Pearl Street.
Henry A. Moody, No. 280 Broadway.
John B. Townsend, Philadelphia, Pa.
Chas. A. Southworth, South Hadley Falls, Mass.

The Sportsmen's Exposition.

The fourth annual exposition of the National Sportsmen's Association opened in the Madison Square Garden, New York, on January 13th, and was continued with great success until Saturday the 22nd. This may well be regarded as one of the most successful meetings of this great Association, and in addition to the exhibit of sporting goods, there were a number of tournaments in which the skill of the angler, the hunter, the bowler and others was shown to great advantage. Space will permit only a brief mention in the present issue, but a more extended mention will be made of the various special features in our issue next succeeding.

The *Chicago Journal of Commerce* in an article in regard to the necessity of proper training for the business of afterlife, speaks well and truthfully of three prominent Western Hardwaremen, as follows: "The lack of the average business man is thoroughness and depth. Knowledge makes labor easy and not a drudgery. The leading men who are doing most toward building up the industries of the West have been hard workers since boyhood. In this connection we need more men like W. H. Preston of Sioux City, Iowa, Col. James R. Nutting of Davenport, Iowa, and William Glass of Omaha, Neb., who stand prominent in the Western Hardware trade. Young business men engaged in fighting their way upward would do well to study the practices of these leaders of the Trans-Mississippi country. The West needs more men like them. To become a successful business man it is far more important to study to be thorough than it is to be brilliant."

The Syracuse Hardware & Iron Co., of Syracuse, N. Y., has been incorporated with a capital stock of $100,000. The directors are: Abraham Howe, Joseph Born, R. H. Bonta, Bradford Kennedy, James K. McGuire and C. G. Baldwin, of Syracuse. It will be readily understood from the above list of names, that this concern is practically a successor of Bradford Kennedy Sons & McGuire. The new concern has purchased the stock of the older one, and is in the market to buy and sell all kinds of Hardware and metals.

Farwell, Ozmun, Kirk & Co., St. Paul, Minn., gave a dinner to their traveling salesmen at the Merchant's Hotel, in that city, on January 6th. The occasion was one of festive enjoyment, and like all gatherings of this character, could not fail to result in increased usefulness and loyalty to the house, and good to all the employes thereof.

The *Commercial Advertiser* has evidently taken a new lease of its hundred years of life. Its pungent comments on current events cannot be passed lightly by, while its new dress commends it to professional journalists, and its legal department makes lawyers think.

Water that boils very violently is not any hotter than that which boils quietly.

Hardware Terms Illustrated.



TABLE SPOONS.

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FINDING A HOME IN NEW YORK.

Editor Hardware: There was a Hardwareman of a modest Western city whose employers desired that he should remove with his family to New York. It was, naturally, with regret that this sundering of ties, and forsaking of friends, was contemplated. But all the family saw a compensation in the fact that it was toward New York, the most attractive spot upon the soil of the new world, that their footsteps were to be directed.

Many had taken the same step before them, and many have taken it since; but few, if any, have placed upon record their haps and mishaps, their expectations, their experiences, their pleasures and disappointments, their losses and gains, during and just after their first plunge from a semi-rural station into the vortex of metropolitan life. That which follows may, therefore, be regarded as the confession or narration of a class, rather than that of an isolated individual.

When the decision to make the venture had been arrived at, the next thing in order was to collect such of the household goods and gods as could be safely carried, and would be needed in the new home, and here was the first mistake made—unavoidable, but none the less a mistake. Of course they knew that a lawn-mower and a wheelbarrow would be out of place in a New York flat, and they had enough of foreknowledge to sell the kitchen and laundry stoves, but how were they to know that the architects here planned for folding beds, that but one bookcase was all that the laws of space allow, that ice-chests are built into the walls, and that kitchen furniture must be kept to the lowest possible point? So freight was paid upon a score of heavy articles that mercilessly crowded the first flat occupied, and went to the auction room before removal to a second.

It was a crisp morning in winter when the stranger and his little family alighted from an Erie train in Jersey City, and their first impression was one of mingled exhiliration and delight. The sun shone upon one of the busiest and most beautiful harbors in the world, while the city across the Hudson stood out with a clearness and cleanness almost paralyzing to one accustomed to the soft-coal smoke of the cities just west of the Allegheny mountains. Subsequent experience deepened that first impression. Even in the country, one cannot go so far with so slight an accumulation of cinder and soot, and dust generally, as in New York city. As one of the youthful sons of the family argued with his mother: "What's the use of washing so much? I don't get half as dirty as I used to at home."

A temporary boarding place had been engaged by correspondence, and here the family alighted, and took their first view of metropolitan life. The careful study of a week led to the conclusion that howsoever New York might differ from other cities in many respects, a boarding house is a boarding house the world over, whether in the side streets of New York, or amid the foliage of a country town—except as to the bill.

With the juvenile portion of the family stored in a second story front where they could see the ash-men cover the street with the paper and dirt they made a pretense of carting away, and under admonition that if they stirred out of the room they would be lost, the responsible members of the firm sallied out in a fearing and uncertain mood to hunt a domicile that should be located and engaged before their carload of household goods should arrive.

And here the firet male of this family, Adam, was reminded by his Eve, of a promise made in the days when they had a home and a city of their own: "Remember, now, that I came to New York on the agreement that there should be no false pretenses about this. If we are to live in New York, I want to live in New York. I don't want to go to Brooklyn—I don't know why, but I don't want to go. Nor to Jersey City; nor Staten Island; nor Yonkers; nor Hoboken; nor Coney Island, Sing Sing, nor the rest of them. Let us be New Yorkers for a year at least, and then it will be time enough to consider the suburbs." An expression like this was the law unto Adam, and so they boarded a sixth Avenue Elevated at Forty-second Street, and headed for Harlem, which, in their minds, suggested only Irving's Knickerbocker, and goats.

Their one disturbing fear was that the movement of the ontside world toward New York might have been such as to take up all the flats, leaving them no chance to preempt a place for their transferred hearthstone. But as their train swung out of Fifty-third Street and into Ninth Avenue, with glimpses of Central Park on the one hand, and the shining Hudson on the other, that fear was dispelled. Block after block passed in review, with buildings in all stages from the half-finished foundation to that already well occupied. Strung all along were signs, "Elegant Flats to let; seven and eight rooms and bath; elegantly decorated; rents moderate. Apply on premises, or to Reel & Estate, agents"; or legends varying only as to the number of rooms or manner of statement. There was an air of cheerful business about them all that was reassuring and even inviting, when the region was passed where the bottles of milk were displayed on the window-sills, and tubs adorned the fire-escapes.

These flat-hunters, it must be borne in mind, were not old New Yorkers, who can size up the interior accommodations and character of a building by a glance at the hall door-mat, or an inspection of the marks upon the jamb; and so they looked upon much, and suffered much, and hoped much, that came back to them in nothing but the coin of experience. They knew more about flats on the evening of that first day, than they had ever expected to know in all their lives.

They had left a roomy home behind them, with parlors and bedrooms overflowing with space, a wide hall, a dining-room measuring eighteen by fifteen feet, and other rooms to match, and their feelings while surveying the limited accommodations of the first flat entered, can be imagined, but hardly described.

"There is one advantage," said Adam, consolingly, "we can eat breakfast without getting out of bed—just reach across the hall and help ourselves." But his wife was past speech—she had prepared herself for much, but this was too much, or rather too little. "I hardly think it is large enough," was all she could venture, and the line of march was taken up, in the direction of another alluring sign.

Had their minds been free to study natural history, as not connected with the need of a roof before their furniture should come, the day would have been profitably spent in noting the various moods and diverse characteristics of the New York janitor, as seen from the foreign view. There was the lofty colored man, who studied a scenic bit in frost upon the window pane, while the investigators rummaged about and asked questions of each other; there was the honest German woman, who confessed the faults of the place with a frankness that condoned them; the red-eyed

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man who oozed the aroma of rye, and seemed to take the call as an unwarranted disturbance of an afternoon nap; the man who was very anxious as to the number of children in the invading family, and was followed upstairs and down by a mangy cur of his own; the glib youth who could declare the flat had never been occupied, while strips of oil-cloth in the bath-room, nails on the wall, and a broken range gave him the lie; the suspicious man, who conveyed in every look and motion the belief that his callers were looking about from mere curiosity, that they did not want a flat, and would not pay the rent if they got one; and that polite young man who told the truth about the building and the neighborhood, and seemed anxious to secure good tenants, and therefore made the best impression of any in the lot.

"Some one should have built a flat to match our furniniture," said Adam, bitterly, as they marched along Ninety-fifth Street, with eyes open for more alluring signs. They had almost made the many corners of the situation fit the many circumstances of the case at the last call, when the wife discovered that no place had been provided for the piano, if the divan was retained; and so the castle of hope the husband had commenced to rear came tumbling about his ears.

"What did you look for? We expected to look about for a week, and here the first day has not ended yet."

The logic of the situation was clearly on the feminine side, and he wisely held his peace.

The void was unfilled when the evening put an end to the quest. When the neighborhood was satisfactory, the rents were too high; where the parlors were large and well-lighted, there was a dearth of bedrooms; when enough bedrooms were provided, there was a lack of something else. In some cases showy fronts and hallways led only to small coops that were out of the question; while an elaborate display of hand-painted ceilings in front could not remove traces of cockroaches and croton-bugs in the kitchen. Finally the wife said: "I'll go into no building that is not new"—and their field of search was narrowed from henceforth.

The second day was a counterpart of the first, except that experience was rapidly taking hold upon them, and they began to imagine that the greenness was wearing off, and a polish of metropolitan ways taking its place. The third day was moist overhead and sodden underfoot, and as the fog rose up their expectations went down. They were willing to overlook some things that seemed to shut them out at first, and to forego conditions that seemed imperative in the beginning; and by this time they had worked their way out to Harlem, and found a city by itself, where they had expected to find only vacant fields and straggling patches of settlement. A city with banks and hotels, newspapers and theatres, parks and crosstown roads, churches, schools, and societies all its own—a city that, while a part of New York, was in one sense a community by itself, and carried to them many reminders of the pleasant and busy community they had left.

Here they found a flat to suit, where they could sit all day and see the flood of gay travel pour out of Central Park, flow on to Harlem River by way of Seventh Avenue, aud back again to the Park; here they raised their family altar within a narrow range of space, and drew in the pure air beyond the Hudson, and boasted unto themselves that they were at last a settled half-dozen in the hundreds of thousands that make up the great city of New York.

But they had much to learn, even then.

New York, January, 1898. BROAD AXE.

Mount St. Gothard, 48,840 feet, is the longest tunnel in the world.

The average length of a cat's life is ten years; a dog's, welve.

The Annual Hardware Dinner.

The annual dinner of the Hardware and metal trades will be given under the auspices of the Hardware Club at the Waldorf-Astoria, Fifth Avenue, Thirty-third to Thirty-fourth Streets, New York, on Monday evening, February 21, 1898. As the membership of the club is not confined solely to those in the Hardware and metal trades, but includes many other trades and professions, in making up the Reception Committee, prominent members of the various trades and professions have been drawn upon to complete it.

The Dinner Committee consists of Alfred D. Clinch, chairman; Eugene Bissell, James H. Kennedy, George H. Sargent, Edward C. Van Glahn, J. Leonard Varick and Richard R. Williams. Tickets will be $6 each, (wines *a la carte*) and can be obtained by application to the committee named above.

Chairman Clinch, of the Dinner Committee, suggests that members who intend purchasing tickets should not delay unnecessarily, as a prompt response will lessen the amount of labor in regard to the proper placing of guests who express a preference for a certain location.

It is intended to serve the dinner at tables accommodating 6, 8 10 or 12 guests.

The lower tier of boxes surrounding the superb ball room of the Waldorf-Astoria, where the dinner will take place, have already been disposed of by the committee to holders of dinner tickets; and the committee have decided to make available the upper tier of boxes, which will be on sale at a lower price of $3 each. Arrangements have been completed by which those occupying the boxes can, if they so desire, be served with refreshments at a cost of $1 for each person.

Definite arrangements as to all of the speakers who are to appear upon this occasion have not yet been made, but it is safe to say that a very attractive programme will be presented.

The Dinner Committee, at a recent meeting, appointed a special committee, consisting of George H. Sargent, of Sargent & Co.: George W. English, of the Berkshire Life Insurance Company, and James H. Kennedy, editor of *Hardware*, to go to Washington with special invitations to several distinguished gentlemen to be present as the speakers at the dinner. The committee called upon President McKinley, by special appointment, on the forenoon of Wednesday the 19th, and were received in a cordial manner. The President expressed his thanks for the honor conferred in the invitation, and said that he would be pleased to take the matter into consideration. No definite response has yet been received from him.

The committee were fortunate in securing the promise of Senator Thurston, of Nebraska, and the Hon. Mr. Tayler, member of Congress from President McKinley's home district, to speak in response to toasts, and also had an interview with the Hon. John M. Dalzell, of Pittsburg, who assured the committee that he would come if his engagements permitted.

The full list of speakers will be announced as soon as the same is completed.

Phillips & Clark Stove Co., Geneva, N. Y., are distributing to the trade a very useful memorandum diary gotten up in the easel form and intended to occupy a place npon the desk of the busy merchant, and remind him of the few important things with which each day comes freighted. It will be found by its recipient a very handy addition to the furniture of his desk and serve a double purpose by reminding him also of the "Andes" stoves made by this company, which are very modestly advertised on top of the easel.

HARDWARE'S "Prices Current" are reliable.

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FILE MAKING BY MACHINERY.

A generation ago, when hand looms had been abandoned, except in Thrums, and even clock works and jewel screws were being made by machinery, the heaviest file used by the machinist, as well as the finest required by the jeweler and sculptor, was still cut by hand. Millions of dollars were spent in this country and abroad in vain attempts to make and introduce the machine cut file. The reasons for the repeated failures are not at once apparent, and cannot be understood without detailed explanation of the peculiarities of this indispensable tool and the services demanded of it, for the file seems to present no more mechanical difficulties in the making of it than many another tool that has long been successfully made by machinery. Success was ultimately attained, as is attested by the existence of large establishments like The Arcade File Works, of Anderson, Ind., and the machine-cut file has become such an important article of commerce that it is difficult to realize that its introduction and general acceptance were comparatively recent.

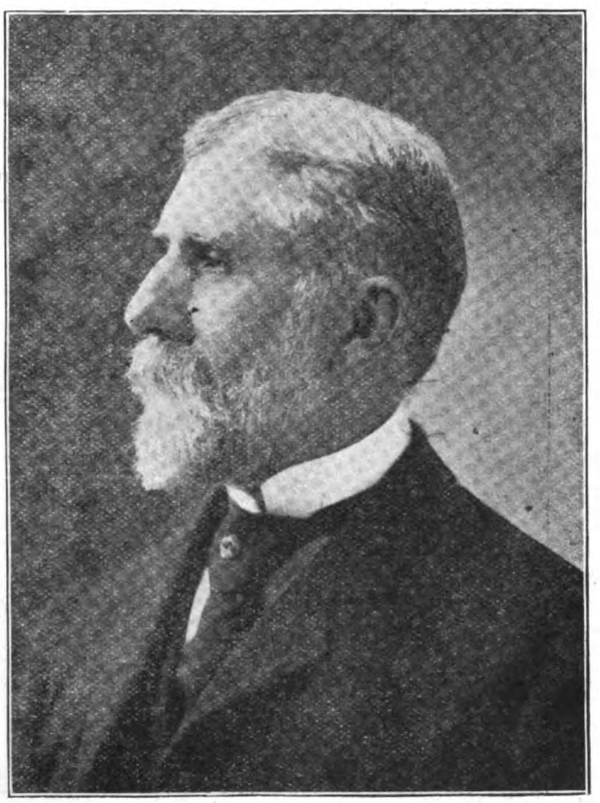
The file is one of the oldest tools known, and one of the most widely used. It is recorded in the "First Book of Samuel" that the Hebrews were possessed of files, more than a thousand years before the birth of Christ, and had then reached such a point of excellence in the manufacture of them that there were different styles and sizes for many different uses. They must have been made in much the same manner as they continued to be up to thirty years ago, by hand, with a chisel and hammer, and as a few of them are made to this day. There is only one break in this record of 3000 years of exclusive hand labor, and that is in the tradition that Leonardo da Vinci, painter, poet, engineer and mechanical genius, contrived a machine for the cutting of teeth on files, and set it up in the classic Val d' Arno about the time Columbus sailed for America. Whether this machine suffered the fate of Hero's steam engine, in the Temple of Alexandria, and became a toy to amuse the populace; whether it was cried down and destroyed by the superstitious and fearful of the middle ages, or whether its operation proved as unsatisfactory as did later devices, and was abandoned, is not known. Certain it is, however, that further developments were discouraged, and 400 years went by before the hand file cutter was even partially displaced by machinery.

FILE CUTTING THIRTY YEARS AGO.

In the list of the year's distinguished dead is chronicled the death of a man who, fifty years ago, learned the trade of file cutting in a little shop in Philadelphia, and whose first task set by his master was to carry a day's output of a half dozen men, in a basket on his head, to each customer, who selected a file to his liking. There were no big file works in the country, small shops supplying the local demand, and occasionally having a surplus for the Western pioneer. In England, up to thirty years ago, although there were large finishing works and shipping depots, and the responsibility was assumed by firms, file cutting was a cottage industry. Within five miles of Sheffield and Warrington hundreds of file cutters lived and applied their skilled craft, and the wayfarer might see blonde or grizzled heads lowered at the quaint casement windows, and hear the rapid strokes of the hammers on the chisels, or note the infrequent pause when the cutter looked out upon his flowerbeds or off to the wooded hills.

In the green lanes that ran between mossy stone walls or clipped hedges of holly and box to the towns, the file-cutter's boy might be seen ambling along on a donkey, with a basket of blanks from the file works, or the file-cutter upon a market day taking the finished work back to get his pay. The cutter usually had a hound, with which he followed the hunt in season, for he was a well-paid craftsman, and could afford to take his day now and then for pleasure. Many of these cutters owned a patch of ground, cultivating the soil one day, and working at the anvil, the next.

Much of the bar steel for files was at first brought from Sweden from the famous Dannemora district. The bars were cut into lengths with chisel and hammer, and then shaped by forging, after which they were annealed or softened for cutting. The blanks after annealing were sent to the grinders, who plied their craft at little proprietary



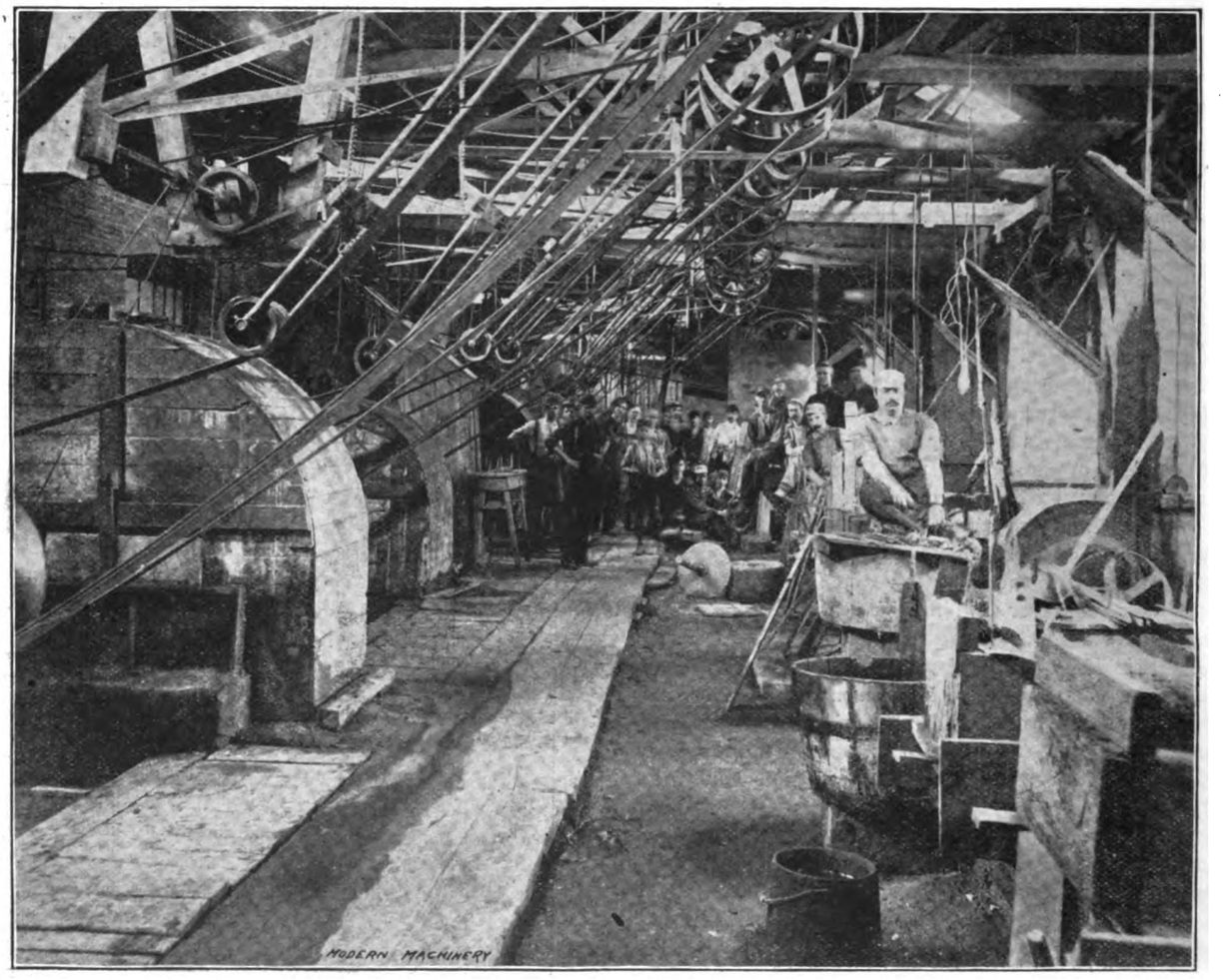
ALFRED WLED,
Vice-President and General Manager Arcade File Works.

grinding mills on the tributaries of the Sheaf and Don, near Sheffield. These mills of stone with overshot water wheels appeared to have occupied their sites from time immemorial, and were rented with water privileges from the proprietors of landed estates. Here the grinder worked night and day when there was water, but accepted with complacency months of idleness. Gradually dams were built and pools formed, so that the supply of water fluctuated less. The blanks, after grinding, went to the stripper, who made the surfaces true and level ready for the cutter.

As the file came to the hand of the cutter it was soft, bright steel, with surfaces flat, round, square, triangular or half-round, with tapered or square ends, and of half a hundred different sizes. The blank was held to the anvil with straps that passed under the cutter's feet, exactly as it is by hand cutters to-day. The workman held a short chisel,

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broader than the file to be cut, in the left hand, and resting on the blank at a specified angle across the file and at a slight inclination toward the point. The cutter then struck a sharp, short blow with a peculiar hammer that curved over from the handle like a heavy-headed inverted pipe. An indentation was made and the soft steel thrown up in a ridge in front of the chisel. This ridge determined the position of the next cut by preventing the chisel from sliding back into the groove. Sixty to eighty times a minute the hammer descended until the surface was covered with a parallel row of ridges inclined towards the point. A second course, at an angle from the first, was cut a trifle closer together and with a shallower indentation. The file was then turned on a sheet of lead to prevent dulling the teeth already cut, or was supported in a lead groove if the blank was round or triangular. The expert file cutter could finish two dozen bastard cut flat files in a day. When cut



THE GRINDING SHOP.

the files were sent back to the factory to be tempered, tested and finished for the market.

THE FILE-CUTTING MACHINE A TRIUMPH OF INGENUITY.

To the sense of sight and touch these hand-cut files seemed to have every tooth of the same size, and the spacing mathematically accurate. It was only when machine cutting was attempted that attention was called sharply to the fact that it was in the irregularity of the spacing and the depth of the indentations given by the flexibility of the human vise holding the chisel, that the virtues of the hand-cut file consisted. The perfectly regular teeth produced by the fixed mechanically-operated chisel of the early machine were found to groove or channel the work—that is, the teeth followed in each other's tracks, cutting in the hollows instead of the rear teeth cutting away the projections left by the forward ones. All the efforts of inventors of file cutting machinery have been but toward securing a reproduction of the hand-cut work, and the peculiar requirements explain why the invention of a satisfactory device was so long in coming. Although apparently so simple the file-cutting machine, as it stands to-day, represents one of the most triumphant achievements of modern machinery endowed as it is with something like human nerves and intelligence.

The amount of cut that any file will make at a stroke depends on the area of cutting edges in contact with the work, and also upon the pressure exerted. Paradoxical as it might seem, the smaller the area of cutting edge under a given pressure, the greater will be the amount of metal removed. In the machine-cut files of a dozen years ago, the regularity of the teeth had the defect of presenting too much cutting area to the surface of the work, and besides "channeling," the indentations between the teeth were more rapidly filled up with filings than was the case with the hand-cut file, so that the workman dared not apply all the pressure necessary to accomplish the work desired, and was often forced to stop to clean the "pinnings" from the teeth. As a result, in a very short time after being introduced the machine file had a deservedly bad name, and was thrown out by workmen who refused to use it. If you give a dog a bad name you are advised by an old adage to hang him. So, many men despaired of rehabilitating the machine-cut file that had failed to do good work or to inspire confidence, and they abandoned the attempt. All honor is therefore due to the few who persisted in their belief that the machine cut file could yet be made a success, and continued to make inventions and improvements in the machinery. Among these men was Alfred Weed, now vice-president and general manager of the Arcade File Works, at Anderson, Ind., which now turns out 2000 dozen files a day, and has been largely instrumental in establishing the reputation of the machine-cut file in this and foreign countries.

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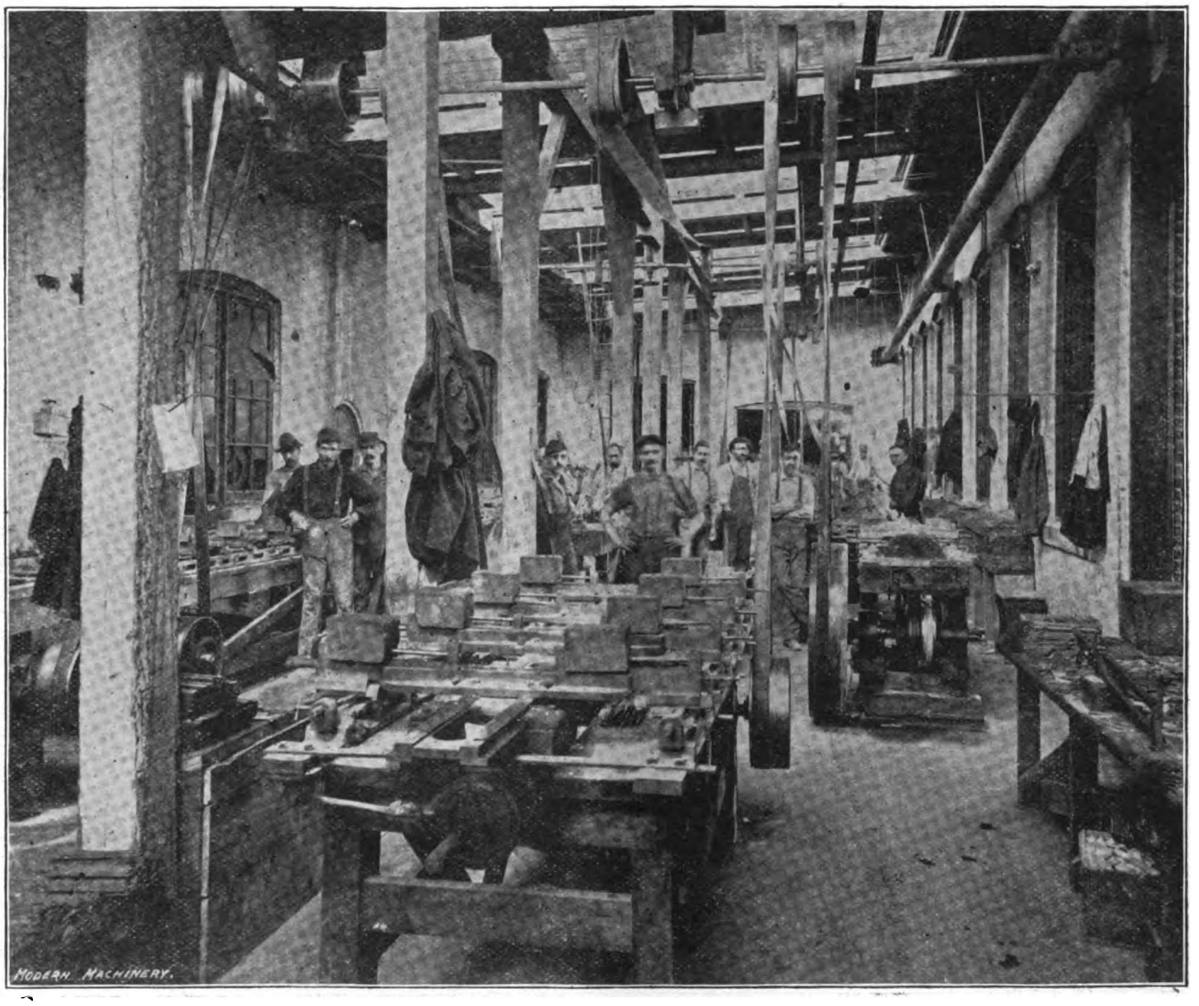
More than thirty years ago Mr. Weed was chief draughtsman of the Whipple Co., of Ballardsvale, Mass., which spent two million dollars unsuccessfully in attempts to make files by machinery. In those days the usual form of file cutting machine had a table or anvil to which the blank was secured, and on which it was fed automatically beneath the chisel that was struck by a trip hammer. In a slight modification of this machine the chisel was fixed in a lever with a spring; in the next device the file was attached to a screw slide which rested on a stationary anvil and was worked by a feed screw. The chisel was struck by a vibrating drop hammer. Ericsson, the great engineer, invented a machine which developed the idea of graduating the depth of the cut, but not the width of the spacing. All of these machines lacked the nervous tension of the human arm and the infinitesimal variations in the height and force of the drop of the hand-cutter's hammer. The machine-cut file remained, like the too perfect maid, of whom the poet complained that she was "faultily faultless."

THE FIRST WEED FILE-CUTTING MACHINE.

While the millions of the Whipple Co. were being lost, their chief draughtsman was differing from them, and quietly working out some ideas of his own. At the first opportunity he went to Europe and studied the hand file cutting works of all lands, and the samples of files, ancient and modern, in the museums. His aim was to construct a machine that would reproduce, as perfectly as possible, the action of the human arm and hand. He perfected his apparatus and began to build machines in Philadelphia. So great was the advance made over all previous inventions of the kind that file-makers everywhere bought the machine and began to introduce the machine-cut file. Mr. Weed then sold the right to manufacture his invention to a large Eastern manufacturer, and retired from business.

He might have been retired yet, and had more time to shoot big game on his ranch in Wyoming, where he spends his vacations, had not natural gas been struck in Indiana. The virtue of the file depends as much on the regularity of the temperature at which it is hardened as on their regularity of the teeth. The ideal fuel is one with which the heat of the furnace can be controlled to the thousandth part of a degree. Besides the temptations offered by this fuel, Mr. Weed had a few other ideas to patent, which are now incorporated in the product of the great factory of The Arcade File Works.

To see The Arcade File Works from the outside one might imagine that the Arcadian days of hand file cutting had never passed away. An electric car runs up to the doorway of the long brick buildings, which stand on the outskirts of the thriving town of Anderson. A belt of woods stretches away to the east, and the workmen's neat frame cottages, each with a lawn and garden, border the street-car line for half a mile. No file cutters sit at the windows, and only curly-headed children look out on the flower beds, and women gather vegetables for dinner from the little gardens. The fathers and brothers and elder sisters, 400 in number, are at work in the great brick buildings, which spread over more than three acres or so of ground. No smoke ascends from the chimneys to defile the blue sky, green earth or unsullied snow, by virtue of the natural gas used for fuel. When you enter the building a cyclopean hammering is going on that makes one resort to the sign language to convey ideas. A man sits just outside the forging shop beside piles of long, steel rods, some of which are flat, some square, some triangular, some round or half round in cross section, and of diameters from



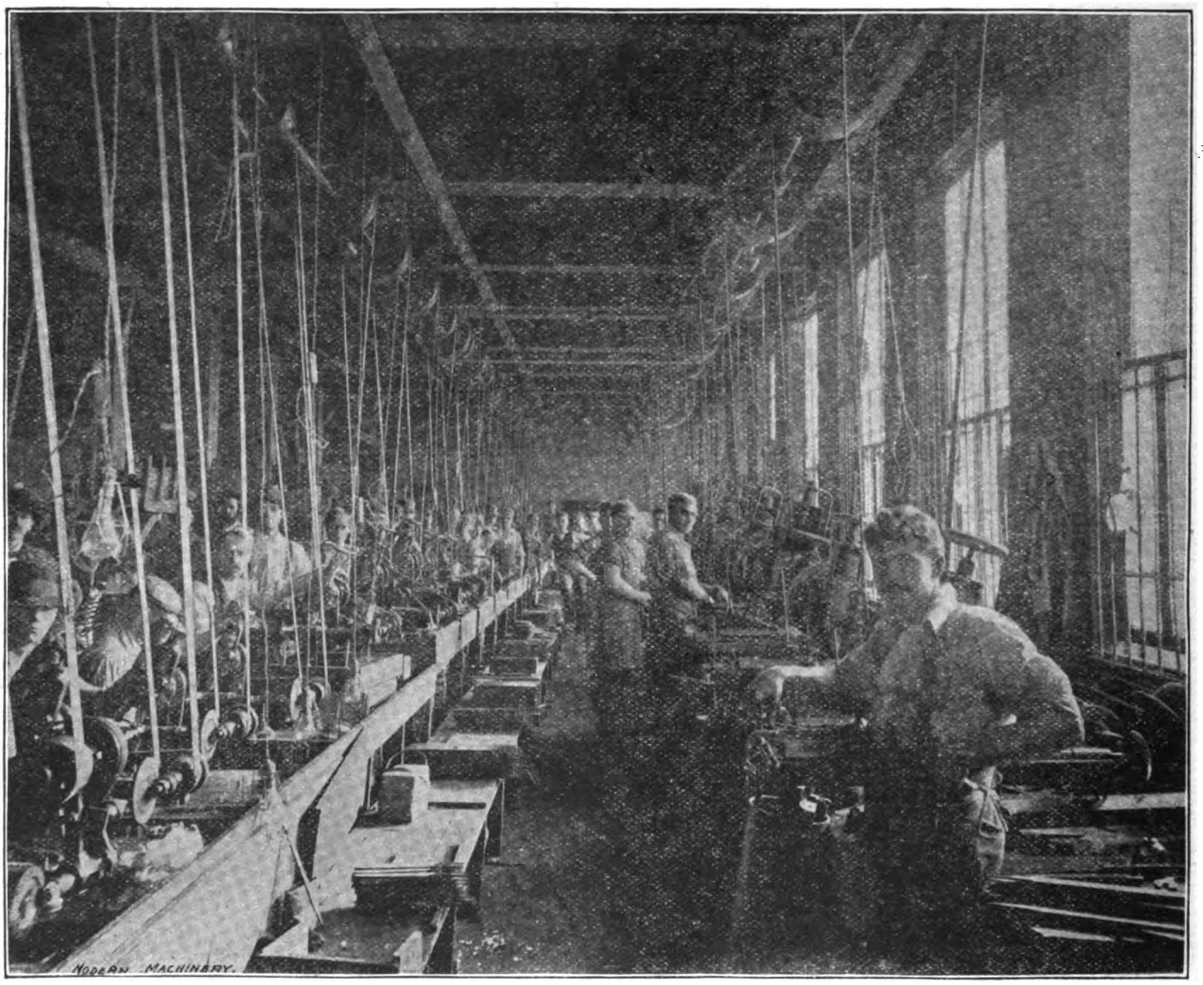
STRIPPING SHOP.

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a slate pencil to a crowbar. These he feeds to a pair of power shears, which clips them at the rate of 2000 dozen a day into lengths that are then conveyed to the forging shop.

This is a room 200 feet long, where thirty power hammers, part of them built by the Bradley Co., of Syracuse, N. Y., and part by Dienelt & Eisenhardt, of Philadelphia, exert a power that would have conferred immortality on as many Vulcans. Each one has a little brick gas furnace for heating the strips of metal. The furnaces are tended by boys, and the strips are lifted out by workmen with tongues and manipulated under the hammers, that come down with a thousand pound stroke more than a hundred times a minute. In less than a moment the bar is rounded, tapered or pointed, and the tang forged at the other end. The rapidity of the whole operation may be judged from the fact that 25,000 files a day are shaped on these thirty anvils; 100 an hour for each machine. The red hot bars have scarcely time to lose their fierce glow from the furnace to the iron truck in which they are wheeled off to the annealing room to be softened for the grinding, stripping and cutting. The "blanks" or blank files, which have now a mottled, rough appearance from the forging and the softening in the furnaces, are sent in batches on long rolling carriers to the grinders, who operate ten power machines, and as many more stones by hand. The great grindstones, such as the Sheaf or the Schuylkill never blinked at or rippled over, are shut up in a framework, forming boxes ten feet high, from which comes the peculiar ear-splitting sound made by stone on steel. All that is required of the machine grinder is to put a number of blanks in a plate holder, which closes up against the stationary stone like a furnace door. With the revolution of the wheel the plate goes up and returns, and one surface of the blanks has been made true and smooth. When all the surfaces of the blanks have been ground they are fitted into the stripping machines, which consist of vises and sliding file strips on long, horizontal tables.

Testers now take these blanks one by one, and, with a hand-cutter's short chisel, test them to see if they are level. Those that are imperfect are sent back to the grinder, while the others pass on to the cutting machine, each one of which occupies scarcely more room than a sewing machine, and is operated by girls and boys as well as by men, each machine being adapted to its particular task of cutting edges or sides in single or double cut on the various shaped files. The blank fits into a groove, and is automatically fed to the chisel, that comes down at the rate of 4000 times a minute on the small files, cutting from 50 to 200 teeth to the inch, and finishing one row of cuts on the side of the file in six or seven seconds and making no two teeth exactly alike from point to tang, but increasing them imperceptibly.



CUTTING SHOP NO. 1.

THE "INCREMENT" CUT.

The manufacturers have been experimenting on this irregular spacing. The Arcade File Works has produced the "Weed Increment" cut by patent, flexible chisels, which they claim reproduce the nervous action of the human hand. Two rooms, 40x200 feet in size, are filled with these machines, each of which can turn out forty to one hundred and twenty-five dozen files a day.

At the other end of the room is the latest achievement of Mr. Weed in the line of invention in file cutting machinery, a machine that cuts a rat tail file with spiral increment, and by one continuous operation. Up to three years ago the round file was cut from point to tang in parallel rows.

The product of each machine is numbered so as to keep

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tally on the machines, and the testers reject imperfect files. The perfect ones are covered with a paste of various substances to protect the teeth from direct contact with the fire, and are then heated in a crucible filled with molten lead. The hardener must be an expert, and able to tell from the cherry redness of the color when the files have reached a certain temperature. With natural gas the tempering, it is claimed, is much more perfect than with any other kind of fuel, for the supply can be regulated by the turning of a screw and the heating made as accurate as clockwork. The files are taken from the furnace one at a time, lifted by the tang with a pair of tongs, and plunged into brine vats with apparent carelessness as to which way they go down. But in fact, some are dipped in perpendicularly, others horizontally or at various angles, as experience has proved to be best to prevent warping. Should they become warped in the process, however, they are straightened with lead hammers on tables of lead before becoming entirely cool. The files are scoured clean with steam scrubbing machines, and dropped into tubs of lime water.

When they are taken from this bath they have not the beautiful black color that they have on Hardware dealers' shelves, but are gray and ashy looking; after which the tangs are annealed by dipping in molten lead. The tester now draws a piece of stiff steel across every surface to find soft spots or imperfect teeth, and those that do not come up to the standard are put aside and sold as "seconds." The files are now oiled, sorted, wrapped in oiled paper to prevent their rusting, placed in labelled boxes, and are ready for the filling of orders.—*Modern Machinery.*

General Booth established the Salvation Army at Mile End Green, London, in 1865. This venerable man was born in 1829, at Nottingham.



TEMPERING SHOP.

Ausable Election.

At the annual meeting of the stockholders of the Ausable Horse Nail Co., held at their office in Keeseville, N. Y., on Thursday, January 13th, the following gentlemen were elected directors for the ensuing year: Abraham Bussing, New York; Daniel Dodge, Edmund K. Baber, James R. Romyn and George N. Kingsland, Keeseville. At a subsequent meeting of the directors the following officers were elected: Abraham Bussing, president; Daniel Dodge, vice-president; Edmund K. Baber, treasurer and manager; George N. Kingsland, secretary.

To Avoid Misleading Trade-Marks.

The tariff act of July 24, 1897, explicitly state that "no article of imported merchandise which shall copy or simulate the name or trade-mark of any domestic manufacture or manufacturer, or which shall bear a mark which is calculated to induce the public to believe that the article is manufactured in the United States, shall be admitted to entry at any custom house of the United States." As it has been the custom among some American manufacturers to import cutlery and similar goods from Europe, branded in a manner to make people believe it was made by them in this country under their corporate firm name, the secretary of the treasury has been called upon by the appraising officers of the Port of New York to construe the portion of the tariff law which covers such branding or marking of articles manufactured abroad.

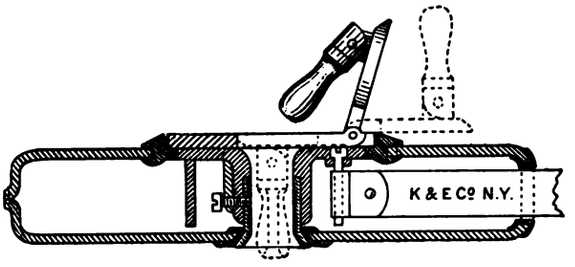
The Berlin Iron Bridge Co., East Berlin, Conn., have a contract for a new drawbridge over the South Shrewsbury River, in Monmouth County, N. J. This bridge is to be 180 feet in length and 40 feet wide. The Berlin Co. have the contract for both the substructure and superstructure.

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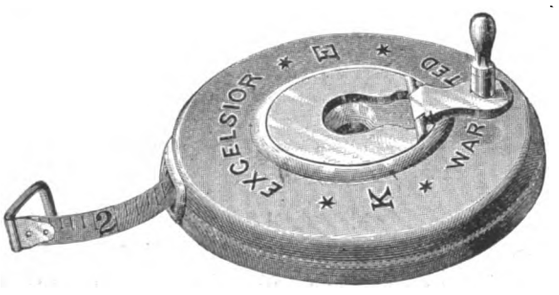
NEW GOODS AND SPECIALTIES.

Excelsior Measuring Tapes.

We are permitted to reproduce here in a complete shape, and also in sectional view, the new Excelsior Measuring Tapes, with a patented improved centre, which are being placed upon the market by the Keuffel & Esser Co., No. 127 Fulton Street, New York, with branch offices at No.



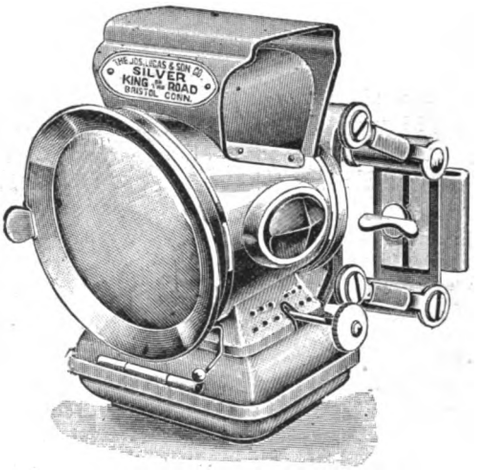
110 Madison Street, Chicago, and No. 708 Locust Street, St. Louis. In a very attractive new catalogue which they have just issued, they illustrate these goods in full, and illustrations may be found upon page 74 on a colored insert, in to-day's issue. These tapes, it must be borne in mind, are American-made, and the company say that "they are recommended as superior to all others in accuracy, construction, material and workmanship." They are divided according to the United States standard as fixed by the United States Coast & Geodetic Survey. The steel tapes are standard at 62 degrees Fahrenheit. Special attention is called to the patented improved centre, which will be understood at a glance of the illustration herewith. This patent centre with flush folding handle, has a large drum which winds the tape quickly, and avoids the close coiling which injures the steel lines. A long swiveling handle, when closed, protrudes beyond the surface of the tape case, so that the crank can be thrown open by pressing on the projecting end of the handle. The larger centre permits of using a longer crank, giving more leverage. These goods are all made of the very best material, and the reputation of the house is such that they can be regarded by everybody as first-class in every respect. A cata-



logue of measuring tapes and pocket rules will be sent by the manufacturers on application.

The Silver King.

The severe service required of a bicycle lamp demands in design, material and workmanship only the best that can be devised. The manufacturers of Lucas lamps have always adhered to that principle, and in the well-known Silver King, shown in the accompanying illustration, they state that they have "embodied every feature of value that inventive ingenuity or human skill has been able to produce." As the simplest methods produce the best results always, improvement has been sought in the direction of producing a perfect oil lamp, as being easily cared for, fuel easily and cheaply procured, and subject to no complications to give trouble just at the time when most needed. The Silver King is therefore placed on the market for '98 with such improvements in construction as to insure its reliability and durability under all circumstances. "The draught is strong, sure and steady, insuring an even and powerful flame. Ample ventilation and safety against flooding or leakage assure perfect combustion without excessive heat. The wick is automatically locked against jarring down, and the light cannot be blown or jarred out. A distinguishable feature, and one which is unique in the Silver King, is the double set of donble-convex lenses. These lenses are not ordinary pressed glass, but are carefully and accurately ground and polished. The large lens in front is 2½ inches in diameter, the small lens in rear of flame 1½ inch. This smaller lens covers the polished reflector, thus protecting the latter, while it also acts to project the light rays through the larger lens in front, the lenses and spacing being so calculated that the stereopticon effect is produced, giving a brilliant, strong and



steady light. The method of opening the Silver King for lighting or cleaning constitutes a point of great advantage, and one of the strongest features found. By releasing a swing catch at the back, the whole upper part tilts forward, giving perfect accessibility to every part without detaching a single piece. The lens in front also opens upon a hinge, as also does the polished cone reflector behind it. Side lights are two colors, finely cut and jeweled, giving a rich and handsome effect. The entire design is neat, chaste and elegant." The Silver King is made of solid brass throughout, with riveted and spun joints, no solder, and is fully guaranteed. It is manufactured by the Jos. Lucas & Son Co., John H. Graham & Co., No. 113 Chambers Street, New York City, general selling agents. Dealers will be supplied with electrotypes and literature, also with catalogues having their name on, free of charge.

League Tires for 1898.

The New York Belting & Packing Co., No. 25 Park Place and No. 22 Murray Street, New York, make the following special announcements in regard to an article which will be of interest to that large body of Hardwaremen who handle bicycle accessories: For the coming season League Tires are made in five different varieties, all single tube—League Special, League, League Tandem Special, League Tandem, League Racing.

League Special Single Tube Tire: A high-speed road tire, constructed of precisely the same rubber and fabric

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used in the League Racing Tire, the quantity of each being practically doubled, to give the strength and wear required for road service. The rubber is Fine Para, elastic, resilient, full of spring and go. The fabric is the choicest Sea Island, strong and light, woven so that each individual



6 5 4 3 2 1

FIG. 1—LEAGUE SPECIAL SINGLE TUBE TIRE.

1. First layer of air tube. 2. Second layer of air tube. 3. Third layer of air tube. 4 First ply of fabric. 5. Second ply of fabric. 6. Outer cover and thread.

thread has free play in every direction. This elasticity of texture permits the tire to yield instantly to obstructions, carries it over small obstacles without jolt or jar, and reduces vibration to a marked degree.

League Single Tube Tire: A road tire of unusual strength and lasting qualities. The closely-woven fabric gives high endurance, and greatly decreases the chance of puncture. In other points of construction the League closely resembles the League Special. It is recommended for road riding of every description—touring, vacation trips and all-around work generally.

League Tandem Special—League Tandem: These two tires are precisely alike, except that in the former thread fabric is used, and in the latter close fabric. As a result,



6 5 4 3 2 1

FIG. 2—LEAGUE SINGLE TUBE TIRE.

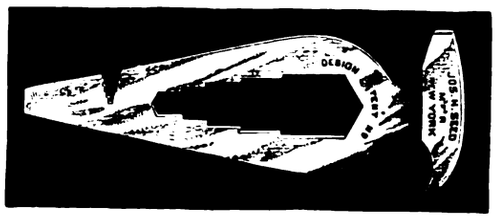
1. First layer of air tube. 2. Second layer of air tube. 3. Third layer of air tube. 4. First ply of fabric. 5. Second ply of fabric. 6. Outer cover and tread.

the Tandem Special is unusually fast; the Tandem unusually durable. Both are high-quality tires, in the strictest sense of the word.

The League Racing Tire: Is lightly but powerfully constructed, and designed especially for track purposes. It is not intended for road work.

Seed's Combination Tool.

We show in this connection Seed's Four-in-hand Combination Tool, being manufactured and successfully placed upon the market by Joseph H. Seed, Nos. 21–23 Centre Street, New York, whose specialties are well known to the trade. The manufacturer calls this "The Bicyclist's Pocket Companion and a Household Handy-Handy." An examination of the same will show that these descriptions are not misplaced, as this little article combines a hammer, a tack-



puller, a square or hexagon nut, spoke or nipple wrench, and screwdriver. It can also be used as a cigar-box opener or closer, and a half-dozen other purposes, which readily suggest themselves. It is made of the finest drop-forged steel, and nickel-plated, and packed in one-fourth gross boxes. The prices announced are $1.50 per dozen, or $15 per gross, and a sample will be sent by mail on receipt of 25 cents.

The Nansen Steel Ball-Bearing Hanger.

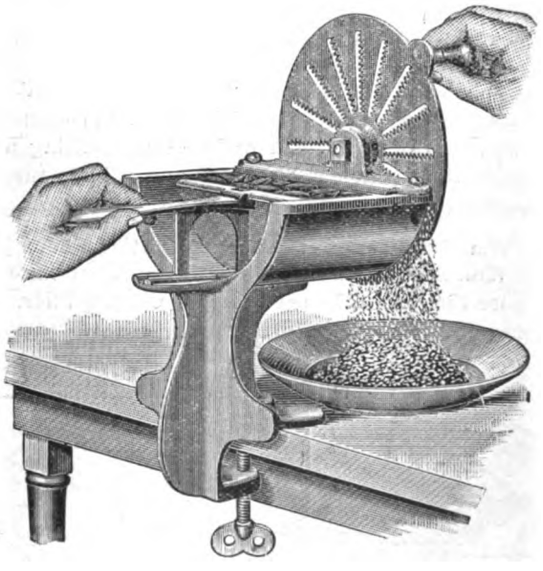
"Nansen is ahead of all others, and so is our Nansen Steel Ball-Bearing Hanger, which we have named after him for the same reason." This is the striking and fetching announcement with which the Stowell Mfg. & Foundry Co., South Milwaukee, Wis., manufacturers of Hardware,



door hangers, registers, ventilators, etc., use in introducing to the trade the article there named. A very good idea of the same may be gleaned from an examination of the illustration shown herewith. The manufacturers add to the above the statement that this article is strong, simple and secure, and are firmly impressed with the belief that there is no better ball-bearing hanger on the market. The prices announced for these goods upon the market are as follows: No. 4, four-inch wheels, per dozen pairs, $15; No. 5, five-inch wheels, per dozen pairs, $18. Full particulars as to discounts, etc., will be sent on application.

The Champion Grater.

The Specialty Novelty Co., Lancaster, Pa., Allerton Clarke Co., sole agents, No. 79 Reade Street, New York, are placing upon the market the Champion Grater, one of the most useful specialties in the line of mechanical graters so far brought to our notice, an illustration of which is given herewith. It is made in the best manner, handsomely tinned, and designed to be retailed at a dollar each, being



calculated to last a long time and having few parts subject to any wear. It can be used in the grating of all possible substances in larger quantities than is usually the case with other graters now before the public. It grates equally well everything in the line of nuts; cocoanut, walnuts, almonds, etc., while such diverse articles as chocolate, horse radish potatoes, crackers and cheese, can be readily reduced

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cooking and other purposes, making the Champion Grater a really valuable kitchen companion.

The Planet Dust Beater.

The accompanying illustrations will convey some idea of the Planet Dust Beater, which is made by the Planet Mfg. Co., Holyoke, Mass. This beater is described as "different from all other kinds, and has the distinction of being the only patented leather dust beater on the market." The advantages of the "Planet" beaters are that, being made of round strands of solid belting leather,

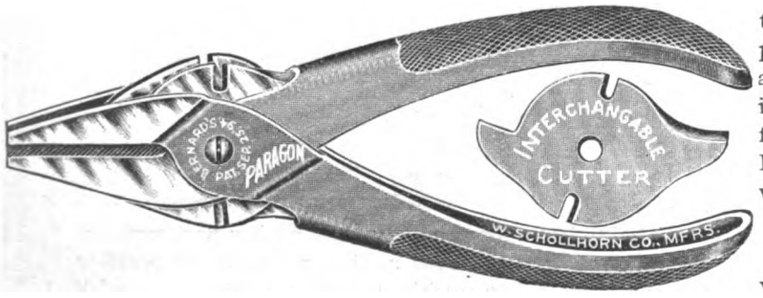




which is pliant, they will not injure the finest furniture, upholstery or clothing, and they can be used for many things where many beaters are of no practical use, as, for instance, in beating all kinds of upholstery, carpets, rugs, ladies' and gentlemen's clothing, bedding, car seats, carriage seats etc., and are especially useful in hotels, hospitals, churches, schools and all public buildings. The "Planet" Beaters have only been on the market one year, but in that time they have been shipped into every State in the Union and the most of the foreign countries. The manufacturers give away very handsome advertising stands for displaying the goods, and as they are put up in individual boxes, nicely printed, they should find a ready sale among the Hardware trade of this and other countries. They are made in four lengths, and retail at from 25 to 50 cents, according to length. A catalogue and price list will be sent upon request. The success of the "Planet" Beaters is largely due to the liberal inducements offered the trade, and to the generous supply of advertising matter and illustrations which the mannfacturers have furnished their customers.

Wm. Schollhorn Co.'s Paragon Cutting Pliers.

The Wm. Schollhorn Co., New Haven, Conn,, are placing before the tool trade the Paragon Cutting Plier, something new in the way of a cutting plier, having interchange-



able cutter, and which is of a very unique design, an illustration of which is given herewith. It is not intended to replace their high grade "Barnard" cutting plier, but simply to supply the constant demand for a good tool for general use, which, although quite moderate as to selling price, still possesses a quality that will command it to the Hardware trade handling tools. These goods are kept in stock by Underhill, Clinch & Co., No. 94 Chambers Street, New York.

Akins' Felt Show Case Mats.

C. E. Akins, Nos. 21 to 25 Centre Street, New York, manufacturer of artistic specialties for advertising purposes, has had an unqualified success with his Felt Show Case Mats, which for a number of years have been a leading specialty, the customers for which are now numbered among such leading companies as: The Union Metallic Cartringe Co., Simmons Hardware Co., the Winchester Repeating Arms Co., Michigan Stove Co., Rathbone, Sard & Co. and Mallory-Wheeler Co. These mats on every show case where they may be placed, form a handsome and attractive advertisement, always before the buyer, and are invariably welcomed by the dealer who receives them, saving the glass of his show case from scratching, making a good change receiver and adding to the attractiveness of the counter furniture.

Death of Burr K. Field.

It is with feelings of sorrow that we announce the death of Burr Kellogg Field, vice-president of the Berlin Iron Bridge Co., who died at his home in Berlin, Conn., on Thursday morning, January 13th, after an illness of less than a week. His death was so sudden and his sickness so short, that few of his friends were aware that he was ill. Burr K. Field was born in May, 1856. He entered the Sheffield Scientific School of Yale University in 1874, and graduated in 1877, as a civil engineer. Immediately after graduation he commenced practical work among the railroads of the West. His principal experience was in connection with the laying out and building of the Northern Pacific. Mr. Field had charge of the locating and building of the branch connecting the Yellowstone National Park with the Northern Pacific. In 1882 he was appointed superintendent of bridges in the city of Philadelphia, which position he held for something over a year, when he resigned to accept a position as assistant engineer of the Berlin Iron Bridge Co., of East Berlin, Conn. His advancement in the Berlin Iron Bridge Co. was very rapid, and at the time of his death he occupied the position of vice-president, with general charge of all the sales. Since his connection with the Berlin Iron Bridge Co. its business has been much extended and its sales have increased very rapidly year after year. Mr. Field had no small part in the making of the enviable reputation which the Berlin Iron Bridge Co. now enjoys, and his death will be a severe loss to his associates. In the very flush of manhood, when everything in the world seemed brightest and best to live for, he was cut off in an instant. He was an indefatigable worker, not only for the company which he had so faithfully served, but in everything he undertook; a true friend of his fellow-men, a devoted and earnest worker in the church, a staunch friend to the cause of temperance; active and energetic in every public position that engaged his attention. Mr. Field had a most pleasing manner, and was so honest in all his dealings that he had an enviable reputation among the manufacturing corporations of the country. People who knew Burr K. Field best, trusted him most. He is survived by a wife and two small children.

One of the finest rooms in Ohio, finished specially in hard woods for Hardware trade and used for such twenty-six years, may be enlarged to include tinware, plumbing and roofing. Rare opportunity. Address W. B. Carey, Salem, Ohio.

Best advertised stove polish on earth, Enameline.

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THE PHILADELPHIA HARDWAREMEN.

The above caption stands for a great deal. It stands for those manufacturers who have made the name of Philadelphia famous, wherever tools are used; it means the great jobbing houses through whose instrumentality these manufactured articles have been carried into every corner of the earth; it means the retailers who supply local wants, and it also means a great many things in addition.

Used in this connection, it means the Hardware Manufacturers' & Merchants' Association of Philadelphia, which on the evening of Friday, January 20th, gave its twelfth annual dinner in the spacious and attractive main dining hall of the Philadelphia Bourse. It means, further, that the occasion was one of rare enjoyment, that the attendance was large and that for once the old men were relegated to the rear, and the young men brought forward with great success. This fact will be demonstrated by a perusal of the speeches which follow, as they are without exception able and full of interest, and the orators were listened to with close attention and rewarded with generous applause.

At the recent annual meeting of the Association, James H. Ritter, of the Biddle Hardware Co., who has served most faithfully as Vice-President of the Association, became its President. He was on hand at an early hour to greet the members of the Association and their guests, and was ably supported by the other officers, with the exception of the genial Secretary-Treasurer, T. James Fernley, who was unable to be present because of the recent great bereavement which had befallen him in the death of his honored father. There were some doubts whether a gathering of this character could be made successful without Mr. Fernley's presence, but Mr. Ritter and his associates threw themselves into the breach with such ability that the loss was in a large measure made up.

At a few moments before 7 o'clock the guests took their seats at the four tables which had been arranged, and were delighted with a scene of very attractive beauty. The tables and the room were tastefully decorated with flowers, and in addition there were discovered about each plate a collection of souvenirs generously provided by the Philadelphia manufacturers for the occasion. Among these were Disston saws and files, Plumb hammers, Barnett files, North Brothers' screwdrivers, McCaffrey files, and little boxes containing bunches of matches about which was wrapped a strip of sandpaper of the Baeder-Adamson brand. In addition to these souvenirs, here and there upon the table were seen meat cutters from the Enterprise works, and lawn mowers of the Supplee manufacture. The latter were adorned in streamers of blue and yellow, which colors, it is needless to say perhaps, are those officially recognized as belonging to Philadelphia—despite the popular impression that drab is the city's prevailing hue.

A very handsome programme had been prepared, the cover of which we reproduce herewith and also a diagram showing the arrangement of the tables and the location of the members and the guests.

The menu and the programme were as follows:

MENU.

Blue Points. Cream of Celery.
Planked Shad. Pate of Sweetbread.
Saddle of Southdown Mutton. Peas. Potatoes Duchess.
Roman Punch.
Quail en Casserole. Lettuce and Tomato Salad.
Montrose Pudding.
Assorted Cakes. Cafe.

"And some loquacious vessels were, and some
Listened perhaps, but never talked at all."—Omar Khayyam.

TOASTS.

PRESIDENT'S ADDRESS, - - - James H. Ritter.
"No more wine? Then we'll push back chairs and talk."—Browning.

CIVIC PRIDE—OUR FAIR CITY OF PHILADELPHIA. Wm. D. Supplee.
"Be to her virtues very kind,
Be to her faults a little blind."—Shakespeare.

SONG—"THE FLIGHT OF AGES," Chas. A. Huff, - —*Bevan.*
"Come now a roundel and a fairy song."—Shakespeare.

OUR PART IN THE NATION'S PROGRESS, - Hugh McCaffrey.
"Let our object be our country, our whole country,
and nothing but our country."
"Thank God! I—I also am an American."—Daniel Webster.

OUR NATIONAL UNREST, - - - - Chas. Z. Tryon.
"No pent up Utica contracts your powers,
But the whole boundless continent is yours."—Jonathan M. Sewell.

SONG, - - - - - - Edmund L. Wunder.
"He coude songs make and well endite."—Chaucer.

AS SEEN THROUGH LEGAL SPECTACLES, - John Roberts.
"Do as thy adversaries do in law, strive mightily, but eat and
drink as friends."—Shakespeare.

IS THE AXE MIGHTIER THAN THE SWORD? - Paul A. Griffith.
"Many strokes, though with little axe,
Hew down and fell the hardest timbered oak."—Shakespeare.

SONG—"AMO," Charles A. Huff, - - - - —*Mattei.*
"It's by his singing the abbot gets his dinner."—Cervantes.

PROSPECT AND RETROSPECT, - - - Alfred C. Rex.
"Defer not to to-morrow to be wise;
To-morrow's sun to thee may never rise."—Congreve.

VALEDICTORY, - - - - - -
"'Farewell!' the portly landlord cried;
'Farewell!' the parting guests replied."—Longfellow.

After the dinner was concluded, which was at 8:30, the retiring president, Samuel Disston, arose, and in a few well-chosen words, introduced the president-elect, who was received with many expressions of good will. Mr. Ritter, after the applause had subsided, arose and delivered the following address of welcome:

ADDRESS OF PRESIDENT RITTER.

"What, no more wine? Then we'll push back chairs and talk.'

Guests and Fellow Members:—The quotation attached to my name calls me to my pleasant duty of extending to all a hearty and brotherly welcome on this our twelfth annual dinner. Only a few years ago there passed away from this earth one of the greatest of American statesmen, a man whose name is still a name to conjure by; and whose memory is ever hailed with acclaim as the "plumed knight." Alike in the midst of debate and in set speeches his eloquence won for him the name of the "silver tongued," and I would that I might have but a shred from his mantle so I might fittingly welcome you all to-night.

For it is not for naught that we yearly leave the hurry and rush of business, the stress of competition, and pausing in the battle of life, come here as fellow workers, having for a flag of truce the fair white cloth of the banquet board, and for regimental colors the glowing hues of flowers. The poet says, "Through the long day we suffer Lord, O give us now repose," and as the green oasis gladdens the eyes of the weary Arab and gives him new strength and fervor, so our annual feast brings encouragement and hope.

And now having satisfied the wants of the body, we gladly push back chairs and talk, glad to hear from those who in the past have given us of their wisdom and eloquence, and glad also to welcome those who now maybe make their maiden speeches and so give promise for the years to come.

And if our Association had done nothing else it is proud of having removed the personal antagonism which once

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existed between us as rivals, and which is perhaps illustrated by the story of two little darkies quarrelling in the street. One of them called the other all sorts of names—except pleasant ones—while darkey number two listened impassively and then said:

"Is you all troo?" "Yes, darn you," was the answer.

"Hab you nuffin more to say?" "No."

"Den all dose tings you were callin' me *you* is."

For twelve long years we have been meeting in this friendly fashion, and as an evening or so ago I sat down in front of my fire to think what words of cheer I should say to-night (for many impromptu speeches are thus thought out), I closed my eyes to think. Perhaps it was the roast turkey and plum pudding which I had for my late dinner, but my closed eyes saw visions, and looking back over the decade and more, I saw old familiar faces representing well-known firms and houses, who now meet with us no more, and of whom we might say as did old Isaac Walton of a one-time comrade, "An excellent angler and now with God." I saw, too, some who are with us to-night, but who were then knickerbockered schoolboys knowing nothing of the price of strap hinges or of nails. And looking down the vista of the coming years I could see the time when future generations would say, "Where are the gray-headed members of 1898?" So time passes, crises come and go, men pass away and their places are filled by others, but our Association goes on in renewed life and vigor with promises of many fruitful and happy days to come.

And now I take pleasure in thanking you for the honor you have conferred upon me in my election to the dignified office of your president. For to be president of an organization of this kind, by no means the least of our Philadelphia merchants' guilds, is no small honor. The record of the merchants of our city, containing such names as Robert Morris, the financier of the Revolution; Stephen Girard, whose fair memory yearly increases with the fame of his white college, and many others who crowded the old coffee house at Front and Market streets during the early years of the century, and made Philadelphia the metropolis of the country and the greatest port of entry in America, is one of which we as loyal Philadelphians may well be proud.

It is something, therefore, for us to stand to-day in the Apostolic succession of Philadelphia merchants, for merchants are the real rulers of the world to-day. Whether they are merchants in money whom we call bankers, or merchants in goods whom we call traders, by trade is the world ruled. If I were to-night to name the rulers of the world, I would name Love, Religion and Commerce. Love and religion rule the hearts and inner lives of men, but the outward ruler is commerce. Once the world was ruled by the firm and ringed hand of the priest, and the Holy Roman Empire was a reality that commanded alike the respect of the refined Italian prince and the reverence and fear of the Northern barbarian; later the mailed hand of the warrior held all power in its kingly grasp while diplomacy was its buttress, but to-day, greater than priestly power, more potent than the armed hand and more subtle than the arts of diplomats, is commerce, the ruler of the world. She it is who scales the mountains with iron roads and streaks valleys and plains with the smoke of the locomotive, who plows the seas with merchant fleets before which the navies of Rome and Cleopatra would be as puny rafts. It is commerce who appropriates all things to her service. Is the lightning called from heaven?—it is enchained in slender wires and made to carry her messages to the ends of the earth and even to perform work once done by the veriest drudges. Has Nature surpassed herself in making a Niagara before which thousands of untutored redmen have bowed in reverence as before the voice of the Great Spirit? Commerce chains that marvel to slavery and compels it to turn the wheels of manufacture. Is earth revealing her secrets of light and heat and life? Commerce appropriates them all to her purposes and work. And if it is so with the once wild forces of nature, how is it with man himself? Truly he has long been tamed to do her bidding. No hamlet is so remote that her influence is not felt. The jungle dweller in India, the ivory hunter in the wilds of the Dark Continent, the lonely inhabitant of the Australian bush and the savage in the South American fields, all do her commands and serve her all the days of their lives.

And if this sounds like poetry or fancy let us look at facts in our own country. Fifty years ago the agricultural products of our country exceeded manufactures by about one-half. To-day, in spite of the marvellous increase of agricultural production, our manufactures are three times the value of the products of agriculture.

This, then, is pre-eminently the Age of Commerce. The old problems of kingcraft and government have passed away, and we merchants of to-day are helping to solve the new problems arising from new conditions and a new ruler.

Sometimes these problems seem hard and unsolvable. *Tempora mutantur*, say some of our Hardware brethren, and it does not take an old man to see that conditions of trade change rapidly from one decade to another, but "if our courage fails in the hour of adversity, our strength," as the Book of Books says, "is small," for there is a Power which may be trusted to overrule all for the good of mankind.

They change so rapidly they remind us of the Irishman before a judge who asked him if the plaintiff had been riding fast. "Very fast, your Honor," was the reply. "How fast?" said the judge; "as fast as a man could run?" "Yis," said the Irishman; "as fast as two men could run."

On that dark day when the news of Lincoln's assassination reached New York City, Wall street was filled with a

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"I do feast tonight my best esteemed acquaintance."
—SHAKESPEARE.

12th Annual Dinner

Hardware Merchants' and Manufacturers' Association of Philadelphia

Thursday, January 20, 1898

at

Philadelphia Bourse

"Let no one say, 'I will not drink of this water.'"
—CERVANTES.

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surging crowd of anxious men who doubted the safety of the nation, and knew not where to turn for hope. Suddenly a man pushed through the crowd and, mounting the Treasury steps, his clear voice rang out over the excited tumult: "Clouds and darkness are round about Him; righteousness and judgment are the habitation of His throne. The Lord reigns and the government at Washington still survives." Prophetic indeed was the scene in the light of after years when the speaker, who was James A. Garfield, became our second martyred President.

So, if at times the future seems dark, let us not lose heart, but remember that we, as merchants, are making history to-day. There can be but little doubt that this old world of ours is on the eve of great social and economic changes, brought about by the all-compelling power of modern commerce. But we are not to lose heart; on the contrary, let us take courage by standing as we do to-night—shoulder to shoulder in a common cause.

When, in 1776, our glorious nation was new-born among the powers of the world, it was her proud privilege to work out many problems which the Old World could not, or would not, and as a leader among the nations stands the United States to-day—the refuge of the oppressed and the hope of the desolate the world over. It may still be our proud privilege as a nation of merchants to solve the social problems of to-day, chaining competition to such a degree that it may become a beneficent force, giving to every man a fair chance for an honest and comfortable living.

So, if with this confidence we look into the coming years, we see a still greater United States, filled with countless millions of happy and industrious people, with the comforts and even luxuries of life so evenly distributed that men and women are no longer doomed to privation and unremitting toil, but having time for the enjoyment of home, for self culture in art, music and all the inspiring heritages of the race, and free indeed in every sense of the word, as befits the people in this country. When our fathers, filled with prophetic instinct, designed a fitting flag for this great nation, they took the pure whiteness of moonlight as emblematic of her purity among the nations, the glowing red of the sunshine as typifying her youthful and growing strength, the deep blue of the midday sky as showing her serenity and depth of character, and then, as a fit emblem of her aspirations and hopes, they took fair stars from heaven and wove all into the flag we love to-day.

And so, believing in this happy future of our beloved country, our hearts will ever be more fully stirred by the sight of the glorious stars and stripes flying overhead in the golden sunshine—a beacon to the weary in every land and the hope of the desolate the world over, and then, more than ever, will our spirits thrill with patriotic pride and fervor as we sing:

"My country, 'tis of thee,
Sweet land of liberty!
Of thee I sing!"

A vocal solo was admirably rendered by William P. M. Braun, after which William D. Supplee was introduced and spoke on the subject, "Our Fair City, Philadelphia." Mr. Supplee said:

SPEECH OF WILLIAM D. SUPPLEE.

Mr. President and Gentlemen: Before accepting of the opportunity that you offer me of reference to but a few of the many blessings that Philadelphia enjoys, I would address myself more particularly to our honored and esteemed president. In public I must refer to him as our worthy president—Mr, James Hansell Ritter; in private I might possibly whisper, "Jimmy," while he may refer to me as a competitor, as that "Bill Supplee."

Mr. President, you should feel noble, great and honored. While your Quaker bashfulness has always prevented your telling your age, we are inclined to believe you younger than any of your predecessors in office. If in this I am wrong please correct me.

The first, our much beloved president, Mr. Wm. J. Lloyd, then Mr. Biddle, Mr. Plumb, Mr. Supplee, Mr. Disston, and now comes yourself. Perhaps, when your little boy joins our ranks, we, as old, grey-haired men, will tell him that you were the greatest of them all; but don't let all the words of praise likely to be spoken mislead you. If you would serve us well, your row will not be an easy one to hoe; 'twill be full of pebbles; as a Southerner would say, it will be full of rocks. You have got to please us all, and with all I must include that greatest of Romans, the honorable secretary, whose recent bereavement preventing him from joining the festivities of the evening no one regrets more than I do. You have got to please him, and this in itself is a task worthy of a diplomat.

Speaking of our titled Secretary-Treasurer Hyphen, lots of other things remind me of an anecdote I read some time since, and with a promise on the part of all present that they will not peach on me for telling tales behind one's back, I would attempt to relate it.

'Tis one of the anecdotes of the Hon. Chauncey M. Depew, related by him and labeled, I believe, "My Joke" No. 1,727,319. Why it reminds me of Thomas James I will leave you to imagine.

Some time since the rumor was spread that a certain gentleman, then president of a prominent railroad, was about to resign his position, the names of both gentleman and corporation having been forgotten—we will say Mr. Smashup, of the Squedunk & Walk-home Railroad Company. Well, the rumor was that Mr. Depew was to accept of the position in order that he might add further honors to his name and at the same time assist his bank account towards that point where he could say, "Thank fortune, all debts are paid and a dollar or so left over." Well, the street rumors were repeated to Mr. Depew, who replied: "A man went into a restaurant, and after eating a very hearty meal asked what was on the bill of fare for dessert. The waiter, who had been wondering at the guest's capacity, answered, 'Peach, pumkin, apple and custard pie.' 'Well,' said the old man, 'bring me a piece of peach, pumkin and apple.' The waiter looked at him a minute and said sarcastically, 'What t'ell's matter with custard?'"

But, to return to our text, which I have no desire to desert.

If there is any grievance against Philadelphia, it is as against that percentage of her citizens who do not, and will not recognize that taking Philadelphia as a whole—that there is no more favored city, no more body of citizens more open for congratulations than those who can say, I am a Philadelphian.

I make this statement of Philadelphia compared with any city in this great United States of America, and that carries with it a comparison with any city in this known world. A thousand and one blessings are ours as compared with New York, Chicago, Baltimore, Pittsburgh, Cleveland and so on, naming all the prominent cities of the country.

We can refer to our parks—unequalled—go where you will. Our city full of homes, the majority of which are owned by the occupants, and so on through a list that will in part, be referred to later.

But some few of her citizens, and often those who do the most or loudest shouting, will pick out the gloomy side of a question and add an apology. Take our public buildings, than which there are no finer in this country, and you will find hundreds—nay thousands—of people who will but mention them to make a complaint; hundreds who complain at its awful cost who have never spent directly one cent in the way of taxation—save it be for a poll-tax—they will walk through the corridor from North to South Broad streets on a dismal day, when all the city is rain and

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gloom, and pronounce the building itself a dirty, dismal hole. Whereas, they should examine some of the chambers provided for the various city departments. Let them, examine but the stairway in either the southwest or southeast corners, and dare then to find the equal in any municipal building in the world. Shame it is for such citizens—for while at heart they may be true and honest they should be more proud.

Nevertheless, the existence of such a class is only too well known to us.

It is not many months since I saw an old woman standing with open-eyed wonderment of despair, because she could not find some awful cracks in the tower, in order to show a friend some of the beauties of the building. And giving it up in despair she said, "Well, the cracks are there some place, and I guess there must be lots of them."

How different from a friend of mine in New York, with whom, on a recent visit to that city, I was crossing the City Hall Park. I noticed scaffolding around the City Hall, and asked if they were going to tear it down and build a decent building for those who have charge of New York's municipal affairs.

"Why"—the man turned on me in disgust. He acted as if I had insulted his city, his family and himself. "Tear it down—why, that's recognized as one of the finest buildings in the country." He started in about archtecture, about proportions and other beauties so hidden as to make them treasures. And all this burst of enthusiasm about a building that you could place in the court of our public buildings and find room enough left to play base ball. Beg pardon, must play golf in these days.

Take our parks of 2,800 acres, as compared with the parks of Paris and London combined, of less acreage; and New York, of less than a third its size.

Take our prize of all prizes—a building which almost casts its shadow on the ground beneath us—our State House. A building which awakens such interest, stirs such enthusiasm as can no other one building in the country. And I doubt if there is any one spot in this known world which should bear such reverence of the country's people as this our grand, glorious and beloved Independence Hall.

Take our homes, numbering nearly a quarter of a million, where Philadelphians are housed at the rate of five to a building as compared with over eighteen to a building in New York and over twenty-five in Paris.

Take a city of peaceful citizenship, where a force of about 2,200 police give better protection than those of our near neighbor with double the number of bluecoats, and only about one-third the street mileage to cover, and our force of 2,200 police as compared with 1,4000 in London, with practically the same street mileage.

Why, gentlemen, in what other city could you give a dinner like this? I mean a *dry* dinner. Which recalls an anecdote I heard the other evening:

An old soak walked into the Hotel Walton bar and asked for a drink. He wanted a Tin Roof. The barkeeper looked at his customer puzzled, and confessed himself at a loss how to prepare it. Well, Mr. Soak explained what was to be put in—whiskey, brandy, gin, cream, de la menthe, a dip of lemon, and so on until a very respectable sized drink if not appetizing mixture was prepared and immediately gulped down. The barkeeper asked forty cents for his pay. "What for?" "Why that drink—that tin roof." "Why, that's on the house." "Gentlemen, your drinks to-night seem to be on the house."

Take our manufacturing industries, as, while we stand second in output, there is no city in this universe where the laborer, mechanic and artisan is in a better position, has as a rule better work or more work and better pay. Take these manufacturers and they turn out on an average a much better, fairer line of merchandise than can be secured elsewhere; a much smaller proportion of shoddy, trashy articles.

Take those goods which our business would put us in a position to positively speak about and know whereof we speak. Of the lines manufactured, we stand unquestionably at the head. Who will question this as to the superiority of the wares of our manufacturers of saws and tools, files, with our several large factories; hatchets and hammers, ice cream freezers, meat cutters, malleable castings, steel goods, sand paper, shovels, and, if I may say it myself, lawn mowers. And, again, take such industrial works as Cramp's, Baldwin's, our oilcloth manufacturing plants, our textile mills, and our carpet mills, where, you well know, more carpets are made than in all the balance of the United States, or more made than in all of England.

A total estimate is made of the value of our manufactured wares gradually and surely creeping up to the one thousand million dollar mark.

The good-naturedness of Philadelphians is as proverbial as their modesty. They can smile at jokes cracked at their own expense; and being able to enjoy one myself I will repeat a sketch and anecdote of *Life's:*

A misty, disagreeable night; an old-fashioned awning post held up by Mr. Stay-out-late from another city, talking to himself until he has attracted the attention of the old, weather-beaten watchman carrying a lantern of the Diogenese pattern; an old coat, 1796 design, together with a street car, composed the sketch. The watchman addressing the inebriate says: "You'd better catch that car and go home; it's the last night car."

"Last night's car, last night's car. I always knew Philadelphia was slow, but I never knew they run last night's car to-night."

A word in regard to our commercial museums. A model of enterprise not even attempted in any other city in our country; and while we have but once more proven the truth of the assertion that there is nothing new under the sun by in part copying the museums of the old world, nevertheless we have, in but a couple of years, so surpassed our foreign rivals as to cause them to send representatives to our shores to get points from us.

Our museums have already proven worthy of their mission by opening up channels of trade that might take a score of years for the individual manufacturer to successfully follow up.

Take our universities, our medical colleges, Girard College, our Bourse building, the finest in this country. Take our Bank of North America, the oldest banking house in the United States, who recently made the laudable offer to subscribe $16,300, or one-tenth of the balance of the Philadelphia Bourse's indebtedness, providing the banking interest and trust companies at large, or the citizens at large, would take the other nine-tenths.

And so on, all buildings and institutions worthy of note; and take that little brick building around on Arch street, where was made the first American flag. Could we not as true American patriots, and as true and loyal citizens, add a postscript to that stanza:

The Star Spangled Banner,
Long may she wave,
O'er the land of the free
And the home of the brave.

And add:

And long may she wave over the homes of the people of the most favored city in this beloved United States.

Charles A. Huff rendered a vocal solo, and was followed by Hugh McCaffrey on "Our Part in the Nation's Progress." His address in full was as follows:

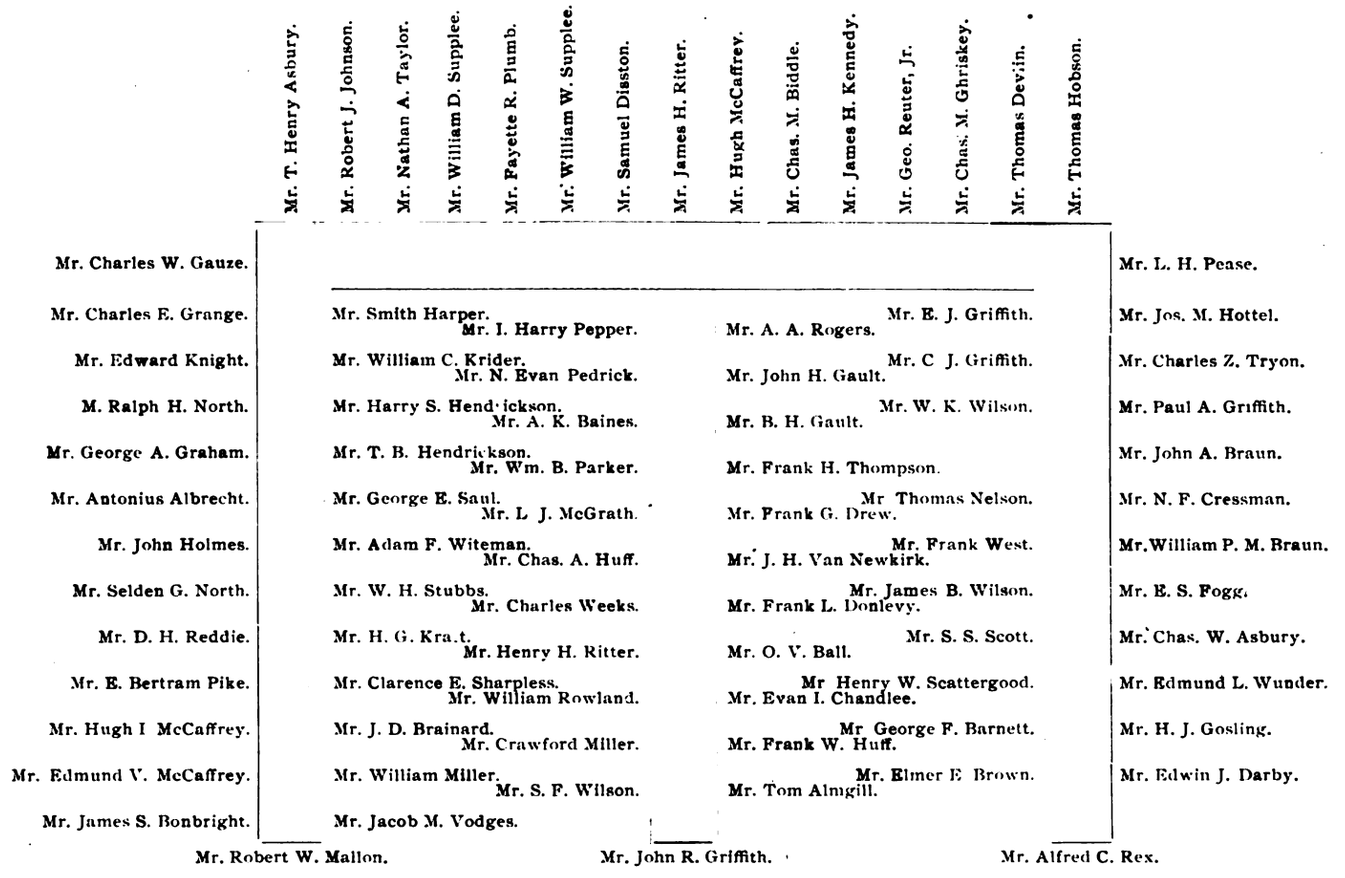
SPEECH OF HUGH M'CAFFREY.

While attempting to say a few words on the work of our organization, or on that of the individuals composing it, in the progress and upbuilding of the nation, yet I am conscious of my inability to say anything new or possibly any

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thing that would even merit your approval, and much less serve you in your business or intercourse with your fellow-manufacturer or merchant. I wish to address my words chiefly to the young men here present, as well as to congratulate them on the selection of one of their number to serve as President of our organization. For his administration I bespeak success. I know he has your confidence and good wishes; and anything you can do to assist him in the discharge of his duties will be a pleasure to you. Our Secretary-Treasurer is a young man; and we regret the bereavement in his family which prevents his being with us this evening.

To my mind, gentlemen, the occupation of a Hardware merchant or Hardware manufacturer is an honorable one; the latter produces or shapes articles that are useful or



beneficial to his fellow-man, sells to the merchant, who distributes them, and thereby creates or promotes commerce.

I do not desire to go into the statistics of the manufacturing interests of our country, not even those of the period that has elapsed since the close of our Civil War, as you know already that they have advanced by leaps and bounds, mainly on account of the principle and workings of the Protective Tariff. All honor to the statesmen who at different periods in our country's history enacted laws that have resulted in the building up of such splendid factories, not only in Pennsylvania, but in almost every State of the Union.

The construction of locomotives was early established here, and has grown steadily, until to-day it has assumed gigantic proportions. The American tourist can now ride behind the Baldwin engine in every country where railroads exist. In 1845 the first rails were made in our State at Danville, and from that time on the great civilizer of our age, the railroad, has made steady progress, reaching out to the South, the North, and especially the Great West, enabling our pioneer farmers who brought the prairies under cultivation to market their products in the Eastern centers of population, and even in Europe.

The building of steamships has been notably a Philadelphia industry; and we are all proud of the immense plant of the Cramp company. The name and fame of Disston's saw works are universal. I shall not attempt to enumerate other busy hives of industry which abound in our city.

Our Hardware merchants are thoughtful, energetic and honorable, well maintaining Philadelphia's credit for fair dealing and hospitality, distributing their goods from Maine to California, reaching the Great Lakes, and south to the Gulf of Mexico, exporting special lines and importing others that are found to be advantageous to our people.

Gentlemen, there is no doubt of our country being the greatest and grandest on earth; and all men, especially those having youth on their side and who are honest, sober and energetic, have a better chance of success and material advancement under the Stars and Stripes than is to be found elsewhere.

I do not wish to praise our Association unnecessarily; but since its formation it has acted well its part in the progress of our nation, being always foremost in every good work; and it has cemented in bonds of trade and friendship the merchants and manufacturers of our city in such a brotherhood as does not exist in any other place that I know of. And one of our members deserves the credit of organizing the jobbing Hardware merchants of the United States into a national organization which has proved of assistance, protection and profit to them.

Fellow-members, I would have you continue in the future as you have done in the past. Keep your record clear as the noonday sun and your principles as honest as the patriots who founded our Government in this good city one hundred and twenty-two years ago. Your equality and high purposes of organization, if continued and lived up to, will not only permeate the people of the West, North and South, but ultimately extend from pole to pole.

Before closing, I desire in all seriousness to say a few words in regard to trusts and combines. I mean those organizations which are formed for the purpose of raising prices and extorting money from their customers for the time being. I am firmly convinced that there is danger to

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our country and its institutions from them, no danger as great, in fact, as from those gigantic frauds. They hold themselves above all laws, national, State and moral. I beseech you to use your strongest influence against them, to urge the people to petition Congress and the State Legislatures for redress. Insist that the lawmakers pass enactments that will abolish trusts and make it impossible for these iniquitous monsters to exist. Throttle them before they have time to stifle and destroy the liberties of the Republic. If you will do this, you can then conscientiously ask God to guide and protect this nation for ever and ever.

"Our National Unrest" was the subject which was most ably handled by Charles Z. Tryon, who spoke as follows:

REMARKS OF MR. TRYON.

If we look broadly over the history of any nation during some stated period of time, we can generally determine some one peculiar force evidencing itself beyond all others and becoming the expression of the mental condition of the people. Art, for instance, controlled the thoughts and feelings of the early Greek civilization; physical prowess and allegiance to country moulded the great Roman empire. During the dark middle ages a cloud of passiveness and ignorance seemed to overshadow the whole of humanity, only to be dispelled by the glorious revival of learning which emanated from the brilliant minds clustered around the Byzantine Empire.

What is the expression of our present civilization, particularly in our own good country? I think we may well say a spirit of restlessness, for from pulpit and platform, in meetings social, political and commercial, on every hand do we hear comments of alarm upon the condition of unrest which seems to have taken such firm grasp upon all grades of society. Now, what are the causes of this unrest, and is it really so alarming? There is one sort of nervous restlessness which pervades all our Western civilization, and I think is in a measure accounted for by Dr. Max Nordau. The mind of man has grown gradually with the progress of the world up to a time say fifty years ago, when, presto—in a moment, without preparation, the tremendous discoveries and inventions of the Nineteenth century have been launched upon us. Every man to-day, with only the same amount of food and sleep as his grandfather, does ten times the work, receives ten times, yes, twenty-five times the number of sense impressions. Our ancestors attended to business with no distraction save perhaps the chirp of a a canary whose gilded cage hung in the office, while to-day into your one ear is poured the medley of sounds and vibrations from the street—the whizzing of the trolleys, the incessant clang of fire, police and ambulance bells, the shouts of draymen, and the piping voices of newsboys. The other side of your head is no better off. This poor ear receives the unending discord of store sounds—the telephone bell, the wrangling of your cashier with the customer who wants two off of a sixty-day account, the tramp, tramp of many feet, and the incessant click, click of the type-writer as it transfers to print your thoughts of but a moment before. The strain has been too sudden for our nervous systems, and humanity has broken down—is tired out. Have you never felt this? Have you never longed for just one week, one day when everything would stop and rest? Not you alone, for then some other fellow would get ahead of you; but when everything—railroads, mail service, banks, interest on that note you owe, steamships, electric lights, sun, moon, stars and gas works—everything, would stop for just one moment, so that you could catch just one breath? But no, you are in the grasp of the hurrying, plunging universe, and you must keep awake and alive or go down and out. Progression or retrogression is the only alternative. Dr. Nordau, however, comforts us with the remark that this nervous restlessness will correct itself in the future, when humanity has had time to assimilate the many phenomena which have thus been ruthlessly thrust upon us.

We may safely cease to worry, then, over this form of restlessness, and engage our attention with another form, apparently more serious in its effects and apparently far more dangerous to the welfare of our land. I refer to that feeling of social unrest always more or less prevalent, but which has appeared more clearly of late, due no doubt to the continued period of hard times through which we have passed.

Primarily, restlessness in itself is not bad; it is natural, and hence good when properly directed. It is a scientific fact that by the restless, untiring use of certain organs, functions or ideas, that these organs, functions or ideas become prominent. Why, the simplest form of life, a mere tiny cell has two restless tendencies, a desire to grow and a desire to divide into two, which it promptly does the moment it is large enough.

Capital, when fixedly invested, produces interest, and what a restless fellow interest is, working day and night; a sacreligious rascal too, for while you are at prayers he is working all day Sunday piling up the profits on your good investments and running up a bigger bill against you on the bad ones. Take this capital, however, and stir it up a little; buy something, sell this merchandise and buy again. Immediately this active capital begins to accumulate much more profit than when passive. The more restless the capital, guided by judgment, the more will it produce. Restlessness, then, is a condition of our existence: and that plant, animal, man or nation which is most restless in the proper direction is bound to supersede others.

No nation of the globe is at this time more restless than our own, and if guided by good judgment and not by prejudice, no nation has a brighter future. Our restlessness has frequently gotten us into trouble, but it has generally been due to poor direction, to prejudice. One sad accident, the result of prejudice, happened in 1860, and it has left a scar that will never be outgrown, but experience is a good if a hard teacher, and the lesson then taught will be long remembered. We of to-day are enjoying privileges won for us by the many sad experiences of those who have gone before, and I think we who are younger often forget this.

It is the misguidance by prejudice of our restless condition that we are to fear then, as a nation.

Now, while there is undoubtedly much prejudice inherent in us all, yet I cannot but think that a large measure of our petty social prejudice and selfishness is due to the influence of the great political parties. One great party goes before the people and says, "Protection is the thing for you;" another party says, "Free silver is the thing for you;" not one word about country, but "you," personally you. Is this the spirit of the founders of our nation? This is a government for the *people*, by the people; not for you or for me by the people.

We passed a crisis about eighteen months ago. Two great parties approached the people from the side of prejudice, bare-faced and appealing to the basest kind of prejudice; while a third party appealed squarely to their judgment. Men held their breaths, and well they might, for in our condition of unrest the decision of the people meant far more than silver or gold; it meant which power was to control our destinies—prejudice or sound judgment. The decision was registered fairly for judgment, and, gentlemen, that decision is the grandest result in many years, for it proves that deep down in the hearts of our laboring people, for that's where the fight really was, personal prejudice was stifled by sound judgment. The result augurs brilliant prospects for our future, for upon this unselfish basis alone can a republican form of government exist.

It is disheartening that this splendid example was not

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followed in the municipal election held not long ago in a great city not far off. There prejudice won. I speak of party prejudice. A large proportion of the intelligent people of that great city permitted the defeat of a cultured, respected citizen for a high office, rather than divorce their national party prejudice from municipal affairs, and worse than all else, some prominent men under the very shadow of our national administration lent their aid to this miserable party prejudice. I once heard of a Chicago political boss who made a brilliant speech, urging the people to be true and faithful to one party, and it has since leaked out that this worthy gentleman had six wives. I do not mean to infer that all our political bosses have six wives each; that is impossible; they do not all live in Chicago; I wish they did: but I do mean to say that nine out of ten of our party prejudice leaders will dump you and their party the moment they can make a better deal with some other faction. Greater New York has had her hair plaited in this style of late, and the quicker she cuts off the "Plait" the better she will look. Municipal governments can never be satisfactory until people are willing to cast aside prejudice and "split the ticket." If, as a city, state and nation, we can always stand on the side of judgment in every question, we need have no fear of our restless condition. Activity has put this country where she is, and she is not going to stop. It is activity that to-day enables the ship-building interests of the Delaware to rival those of the far-famed Clyde; American locomotives and American steel rails to carry civilization into the wilderness of new lands. It is American activity that causes every tree in the wide, wide world to tremble from leaf to rootlet at the name of Disston's saws; every tack in the universe to hide its head at the thought of Plumb's hammers, and every cur dog from the Transvaal to the Klondyke to run for his life at the mere mention of the Enterprise sausage machine.

On these lines nothing can hold this country down, with our wonderful resources, ingenuity and imitative ability; but our activities must be guided, and guided properly.

Tempered by judgment,
Blessed be restlessness.

A song by Edmund L. Wunder was next listened to. The address which had been assigned to John Roberts was not delivered because of the gentleman's absence, and the next orator was Paul A. Griffith, who spoke briefly but with effect in answer to the weighty question, "Is the Pen Mightier than the Sword?"

ADDRESS OF ALFRED C. REX.

"We look before and after,
And pine for what is not.
Our sincerest laughter
With some pain is fraught;
Our sweetest songs are those that tell of saddest thought."—SHELLEY.

We scarcely realize how fleeting and transitory is that period of time we call the present. It comes from the womb of the future, and in an instant passes into the grave of the past, carrying with it the record of our deeds. The present is the tiny point of wave-washed rock upon which we stand, leaving before and behind us the illimitable watery washes of the ocean of time. Moore calls it: "This narrow isthmus 'twixt the boundless seas—the past, the future—two eternities." Even this banquet, lately so much in evidence, is now past, or soon will be, but the nightmare is yet to come. The present is prolific of good intentions, but the future too often witnesses their ignominious extinction. One of the notable deities of the Romans was Janus, whose temple stood open during war and was closed during peace. This god had two faces, one turned toward the east and the other toward the west. He gazed with equal placidity upon the rising and upon the setting sun. He welcomed the coming of the day with the same lack of enthusiasm which he bestowed upon its departure. If he had thoughts upon the current topics of the day he veiled them behind a brazen front and shrouded them in a monumental silence. Janus has sometimes appeared to me to be the patron saint of the trafficker in Hardware. In his honor has been named a lock which, like a good rule, works both ways. Those whom an unrelenting fate has caused to come into contact with the purchasing department of a Hardware house will recognize in the buyer some of the characteristic traits of Janus himself. After waiting in the atrium of the temple with a number of other victims destined for the sacrifice, each guarding jealously his lares and penates in mysterious boxes cinctured with straps, the daring one is finally ushered into the presence. The retiring guest is sped, and the coming one is welcomed with the same frapped impenetrability of countenance. The samples are spread out, but neither their beauty of finish, harmony of design, exquisite workmanship, superior quality nor ridiculously low prices, apparently move this man with the iron mask. His nerves of steel repress the thrill of joy he feels at securing a bargain, and an order is finally drawn from him as with a corkscrew, and on purely philanthropic lines.

Then our friend, the buyer, is a victim of the discount habit. No net figure, however low, brings the same joy to his heart as the same price reached by a tortuous stairway of discounts. The crowning triumph after the bottom has been reached is a still lower deep attained through the medium for cash discount. If this cash discount is only 2 %, he is happy until, like the tiger who has tasted blood, he some time strikes a hapless victim whose necessities are greater than his will power for 5 %, and forever after he is a commercial Oliver Twist. This inoculation of the discount virus shows sometimes its baneful effects in other relations of life.

But while, in the light of our Nineteenth century wisdom, we smile at what we may call the foolishness of the ancients, we may yet profit by much which they have written and the ideas they have suggested. As the grain of wheat, wrapped in the mummy's cerements and lost to the world for thousands of years, may grow when planted in the earth, so the germs of truth contained in the writings of these back numbers of humanity may become vitalized when properly used by us. The God Janus may teach us useful lessons. I do not rise here to chant the praises of duplicity, but I do urge the utility of retrospection in its bearing upon the future. Those who only look behind them, like Bellamy, are apt to trip over some obstacle in their path and fall. Those who look only in front of them are apt to be run over by some competitor who is driving the chariot of progress. Those who gaze in the Assyrian way of the god Janus will most probably be on hand when the laurel crowns are distributed.

This is now the time to be sorry and repent. Those of you who as buyers have aided in depressing the manufacturer's prices and thus forced him to degrade the quality of his goods to harmonize therewith, now have the opportunity to undo this wrong. Resolve in the year to come to give him all he asks for, and send sunshine into his home, and gladden the hearts of his little children.

It is impossible for any normally constituted person to live so entirely in the present that the future can be ignored. In the most trivial as well as the most vital concerns of life, to-morrow plays an important part. An Irishman who was looking ahead, entered a jewelry store, beckoned a clerk to one side, and, in a mysterious whisper, asked, "Have ye anny plane goold weddin' rings?' "Eighteen carat?" asked the clerk. "It's none of your domed business," said the Irishman, "whether I've been ating carrotts or onions."

Finally we must be frank with ourselves. We have had the past—what use have we made of it? We have the

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present—what are we doing with it? The future is not yet ours, but how will we meet it?

To-morrow is a day too far
To trust, what'er the day be.
We know a little what we are,
But who knows what we may be?

To-morrow cannot make or mar
To-day, whate'er the day may be;
Nor can the men which now we are
Foresee the men we may be.

The gathering broke up at a few moments before 11 o'clock. To those who have ever attended an event of this character in Philadelphia, it is needless to say that it was a success in every sense of the word. The gentlemen who acted as a Committee of Arrangements were as follows: William D. Supplee, chairman; James H. Ritter, ex-officio; T. James Fernley, Paul A. Griffith and R. W. Mallon, and it was to the efforts of these gentlemen that the success of the evening was largely due.

Recent Trade Publications.

The Bryan Mfg. Co., Bryan, Ohio, are sending the trade a handsomely illustrated catalogue of their well known line of Champion Wheelbarrows. These articles are shown when set up for use, and also in parts packed ready for shipment, and as the very best quality of paper is used, highly calendered, each article stands out with wonderful distinctness. A great deal of information as to sizes, quality, weight, etc., is given, and each special line is taken up and fully described. In a prefatory note addressed to the trade, they call special attention to the construction of the Champion Wheelbarrows, and refer more directly to the following points: "In this issue of our catalogue No. 30, we are pleased to offer our friends and customers the best as well as the most complete line of wheelbarrows made. We desire to call your attention to the construction of the Champion Wheelbarrow, which embraces many important features not found in any other barrows on the market. 1st. Our patented staple axle bolt for attacning wheel to handles has no equal, as it braces and strengthens the frame and prevents the handles from spreading or splitting. 2nd. Our patented malleable shoe for combining legs and braces makes the strongest and most durable wood frame barrow on the market, as well as the neatest in appearance. 3rd. Our patented folding steel frame garden and railroad barrows occupy the least space for storing and shipping. The frame, handles and bolts of each barrow are in one complete package, so that an order for any number can be easily and quickly filled. The quality of material and workmanship cannot be excelled. We aim to give a complete and accurate description of each barrow in the following pages, and will be pleased to furnish any other description or information upon receipt of inquiry." This catalogue will be sent to anyone who will drop a card asking for the same, and it is needless to say it is one in which every Hardware dealer is naturally interested.

The Joseph Dixon Crucible Co., Jersey City, N. J., have issued two very beautiful catalogues, which are in every way works of art. The first is entitled "Dixon's American Graphite Pencils," and is printed in white, red and gold, with a very beautiful design upon both front and back cover. Inside are a great variety of illustrations and descriptions of the extensive line of pencils which this company manufacture, and which are known wherever civilized man has occasion to record his thoughts or keep a record of his business transactions. The second publication is entitled "Dixon's Graphite Productions," and is also printed in colors with most artistic front and back pages. Upon the cover are shown their works in Jersey City, the graphite mills at Ticonderoga, N. Y., and the cedar mills at Crystal River, Fla. Everything in the way of knowledge concerning graphite that can possibly be wished is found in these pages, and their various lines of manufacture are illustrated and fully described.

Bruce & Cook, Nos. 186–190 Water and 248–250 Pearl Streets, New York, are distributing to their friends and customers their annual calendar printed in colors with a handsomely ornamental border, commemorating the eighty-sixth year in business of this pioneer metal house. We have become so accustomed to awaiting the advent of this handy and convenient calendar each succeeding year, that should it at any time fail to be on hand, as usual, we should feel as though something was lacking in the holiday equipment. This year the calendar is accompanied by a graphically illustrated history of this old house taken from the columns of one of our contemporaries, where it appeared originally; it forms in its present distribution very pleasant and reminiscent reading for the patrons of the house, the individuality of the past and present members of the firm being shown in the array of portraits forming part of its illustrations, and is by no means the least of its attractions.

The Ausable Horse Nail Co., No. 10 Murray Street, New York, have kindly sent us a very attractive and artistic colored calendar. In the background there is a view of the magnificent Hudson, and Grant's monument, while in the foreground, a beautiful daughter of America is seen mounted upon a horse, which it is safe to assume, carries with him the famous Ausable Hot Forged, Hammer Pointed Horse Nails. Upon one side of this artistic picture, in beautiful blue satin ribbon, is a *fac simile* of the medal and ribbon awarded for fine material and finish of the Ausable Horse Nails, at the Tennessee Centennial Exposition at Nashville. This is one of the most artistic and attractive calendars that has made its appearance this year.

The Wilmot & Hobbs Mfg. Co., Bridgeport, Conn., with New York office at No. 253 Broadway, are issuing their new catalogue E, which includes about everything which they manufacture. Thls includes their well-known varieties of steel for pressed, stamped and drawn work; their copperized and nickel-plated oilers, lamps and oiler sets, steel floor tiling, bicycle tubing, etc. These goods are thoroughly illustrated, with extended descriptions, prices, etc., and the book itself makes a very useful compendium for anybody interested in their line of goods. It will be sent upon application.

The Keuffel & Esser Co., No. 127 Fulton Street, New York, have issued a new trade price list of measuring tapes and pocket rules in which their various manufactures in the way of steel tapes, spring bound steel rules, drawing materials and surveying instruments, etc., are shown, with description, prices, etc. This catalogue is very tastefully gotten up, each page being enclosed in red borders, with artistic headings. An index and telegraph code add to the usefulness of the publication, which will be sent to any Hardware dealer on application.

The Coburn Trolley Track Mfg. Co., Holyoke, Mass., have just issued an artistic pamphlet handsomely printed on coated paper and illustrated fully by carefully executed half-tones, the contents of which have reference to their Patented Carrying Track Systems, adapted for machine shops, foundries, printing establishments, cotton mills, etc., in many and various applications, all of which are graphically illustrated in a very instructive and entertaining way, showing how great the utility can be made of a system of this character.

The annual meeting of the Van Wagoner & Williams Hardware Co., New York and Cleveland, will be held in Jersey City on January 27th, for the purpose of electing seven directors to serve for the ensuing year.

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Review of the Markets.

Hardware: Reports from our well-informed correspondents from trade centers in all parts of the Union, indicate a much better trade during the winter than is annually anticipated, and a very hopeful feeling for future business prevails in consequence.

Wire Nails: Continue to feel an average demand, devoid of much of the speculative feeling which the agitation of pooling interests was supposed to instigate. Orders for future delivery at the rates now prevailing are not entered for later dates than February. The quotations remain substantially as in our previous issue, with an undercurrent of belief that contracts covering several carloads might be shaded five cents a keg. We quote: For carload lots, $1.45, base, f. o. b. mill. New York quotations, $1.60 for carload lots on dock, and the usual advance for smaller lots from store.

Cut Nails: Although prices are very favorable for larger transactions than are reported, the business in this staple line is only nominal, and quotations remain as last noted, New York quotations being for carload lots on dock $1.25; smaller lots from store, $1.35.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, quote as follows: In lots of less than 5 barrels, 43 cents per gallon; in lots of 5 barrels or more, 42 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon.

F. E. Kohler & Co., Canton, Ohio, under date of January 12th, announce the following changes in net prices of their specialties to apply to their latest catalogue: Goods delivered f.o.b. cars, Canton, Ohio. For export, all goods are boxed, crated or burlapped.

Little Giant Post Hole Digger	No. 12	$12.00	per doz.
Hercules " " "	No. 25,	11.00	"
Invincible " " "	No. 6,	10.00	"
Pioneer " " "	No. 714,	9.00	"
Lock Lever " " "	No. 20,	12.00	"
Universal " " "	No. 49,	14.00	"
New Champion " "	No. 37,	7.00	"
Iron Handle " "	No. 38,	5 00	"
Horse Nail Hog Ringer, also Plain (12 dozen in case)	No. 1	9.00	"
All Steel Lawn Queen Rake	No. 120, $3.25; No. 124,	3 40	"
" Catch All Rake	No. 220. $3.15; No. 224,	3 25	"
" Improved Lawn Queen	No. 20, $3.35; No. 24,	3.50	"
" Jumbo " "	No. 36, $7.00; No. 342, $8.00; No. 2046, $7.00; No. 3427, $9.00		per doz.
Paragon (Wood Head) Lawn Rake	No. 320, $2.85; No 324,	$3.00	"
Steel Garden Rake			50% discount
" " Hoe, (5 Prong)	No. 5,	$1.75	per doz.
Tinned Mal. Weeding Hooks (12 dozen in case)	No. 50,	$6 00	per gro.
Cyclone Steel General Purpose Shovel	No. 13,	3.50	per doz.
Steel Furnace Shovel, 8 and 10 inch	No. 10,	3.25	"
With No. 2 Handle, 20 cents extra; No. 3, 50 cents extra.			
Steel Side Walk Scraper	No. 7,	$3.00	per doz.
Mal. Handle Steel Garden Trowel	No. 5, $6.00; No. 6,	7 20	per gro.
Japanned, instead of Tinned, 15% discount.			
Solid Handle Steel Garden Trowel	No. 10,	$9.00	per gro.
Kohler's Hand Corn Planter	No. 1,	8.00	per doz.
Royal Saw Set	No. 1,	6.00	"
Giant Royal Saw Set	No. 2,	9.00	"
Gem Vegetable Masher	No. 1,	9.00	per gro.
Flexible Pot and Kettle Scraper	No. 1,	9.00	"
Invisible Anti-Rattler	No 3,	6.00	"
Perfect "	No. 2,	7.00	"
Bolt Holder "	No. 1,	9 00	"
German Pruning Shear	No. 46,	3.50	per doz.
American " "	No. 33,	2.50	"
Fuller's Patent Mop Stick	No.1,	10.80	per gro.
Mystic Lawn Fountain	No. 1, $6.00; No. 2,	7.20	per doz.
Rainmaker "	No 3,	4.50	"
Dew Drop "	No 4,	1.50	"
Wooden Hose Nozzles	No. 5,	2 40	per gro.
Wooden Hose Menders	No. 6,	1.20	"
Daisy Spray Pumps		7.50	per doz.

The Logan & Strobridge Iron Co., New Brighton, Pa., under date of January 11, 1898, announce the following net prices on coffee mills manufactured by them:

Price	$1.40	1.20	1 00	3.05	3.05	3.50	3 35	3.75
No.	302	301	300	1180	94	95	730	731
Price	$4 00	4.25	3.05	3.75	4.00	4.25	3.25	3.75
No.	732	735	700	701	702	725	600	601
Price	$4 00	3 35	3.75	4.00	4.25	5 00	3 35	3 75
No.	602	530	531	532	535	550	500	501
Price	$4.00	4.25	2.80	3.00	3.50	4.00	3.00	5.50
No	502	525	1001	1031	900	901	231	5
Price	$2.90	2 40	2.75	3.00	2 50	1.70	3.25	2.50
No	8	14	16	18	116	1	3	17
Price	$1.70	2 34	2.70	3.25	2.50	2 75	3 25	
No	101&121	102&122	103&123	104&124	250	260	270	
Price	$5.30	5.00	8.00	12.00	7 80	6.00	4.50	
No	280	0A	1A	2A	1S	2S	3S	
Price	$10.00	24 00	3.50		3 10			
No	60	65	Plantation (box)		Plantation (no box)			
Price	$4.00	5 00	5.00	4.30	5.25	5.75		
	Monarch, Jr.	Power	Hand	3A	4A	4½A		

Irving Elting & Co., Saugerties, N. Y., announce the following price list on the Elting Patent Sash Locks and Lugs:

No. 1.	Plain Iron, polished, Nickel plated,	per dozen,	$2.40
No. 2.	" Iron, " Bronze plated	"	3.60
No. 3.	" Iron, " Old Copper plated	"	4.20
No. 4.	" Bronze Metal, highly polished,	"	6 00
No. 5.	" Bronze Metal, Old Copper plated	"	6.60
No. 6.	" Brass Metal, highly polished	"	6.00
No. 7.	" Brass Metal, polished, Nickel plated.	"	6 60
No 8.	" Brass Metal, polished, Antique finish.	"	6.00

Lugs are made in all styles to match locks, and are numbered the same. Price, per dozen (with screws).

No. 1	50 cents	No. 5	$1 00
" 2	70 "	" 6	90 cents.
" 3	80 "	" 7	$1.00
" 4	90 "	" 8	1.00

Discount to the trade, 40@50 per cent., according to quantity.

Henry Disston & Sons, Philadelphia, Pa., under date of Jan. 1st, 1898, announce the following discounts, applying to 1897 catalogue. All former quotations are cancelled:

Inserted Tooth Circular Saws	50%
Solid Tooth Circular Saws	50%
Circular Saw Repairs	50%
Shingle Saws	50%
Segment Veneer Saws	50%
Repairing Segment Saws	50%
Repairing Long Saws	50%
Circular Mitre Saws	50%
Concave Saws	50%
Grooving Saws and Cork Knives	50%
Circular Milling Saws for Metal	50%
Screw Slotting Cutters	50%
Circular Swas and Discs for Hot or Cold Iron	50%
Circular Saws for Slate	50%
Comb Saws	50%
Mill and Mulay Saws	50
Gang and Deal Saws	50%
Pit, Whip and Futtock Saws	50%
Pond Ice Saws	50%
Drag Saws	50%
Diamond Tooth Drag Saws	50%
Hand Ice Saws	50%
CROSSCUT SAWS.	
Perforated Lance Tooth Crosscut	45
Electric, Tennon and Plain Tooth Crosscut	45
Lumberman, Diamond, Fleam, Lancet Crosscut	45%
Champion and Tuttle Tooth	45%
Great American Crosscut	45%
One-man Great American Crosscut	45%
One-man Champion and Lumberman Crosscut	45%
"Keystone" One-man Champion	45%
Humboldt, California, Toledo and Sabine	45%
Special "Vim" Champion Crosscut	45%
Triumph Crosscut, Champion and Great American Tooth	50
Aukland Tooth Crosscut	40%
Crosscut Saw Handles	45%
Cleaner Tooth Gauges	45%
Combination Crosscut Saw Tool	25%
Saw Mandrels	25%
Saw Mandrels and Speed Indicator	25%
Saw Gummers and Cutters	25%
Emery Wheel Gummer and Cutter Grinder	25%
Punch Gummer and Hand Shear	25%
Swages	25%
Tools for Repairing	25%
Saw Sets	25%
Saw Sets and Machine for Sharpening Inserted Teeth	25%
Saw Sets and Side Files	25%
Saw Clamps and Filing Guide	25%
Star Saw Set	25%
Wire Gauges	25%
Band Saws, 2 inches to 14 inches wide	60%
Band Saws, ¼ inch to ⅝ inch wide	60%
Band Saws, ¼ inch to 1¼ inches wide	60%
Fay Web Saws	25%
German Webs	25%
Turning and Felloe Webs	25%
Gin Roller and Doctor Blades	25%
HAND SAWS.	
Hand Saws Nos. 12, 99, 9, 16, D8, 120, 76, 77 and 8	25%
Hand Saws Nos. 3, 1, 0 and 00	25%
Hand Saws Nos. 7, 107 and 107½	30%
Combination Hand Saws	30%
Gauge Saws and Cabinet Scrapers	25%
Compass and Keyhole Saws	25%
Plumbers', Dovetail, Turkish, Stair-builders' and Climax Pruning Saws	25%
Pruning Saws	25%
Back Saws	25%
Wood Saw Blades	40%
Framed Wood Saws and Bucks	35%
Wood Saw Rods	25%
Butcher Saws and Blades	35%
DeHorning Saws	25%
Disston Hack Saws and Blades	25%
Keystone, Flexible and Shop Hack Blades	20%
Keystone Butcher Saws and Blades	2 %
Plastering Trowels	25%
Brick and Pointing Trowels	30%
"Standard" Brand Trowels	40%
Garden Trowels	40%
Cane, Hedge and Corn Knives	25%
Post Hole Diggers	25%
Pruning Hook and Saw	25%
Saw Handles and Screws	25%
Machinists' Rules and Squares (No. 4½ Square take No. 3½ list)	25%
Slaw and Kraut Cutters	30%
Try Squares and Bevels	70%
Mortise Gauge	70%
Screw Drivers, Handles and Ferrules	70%
Plumbs and Levels	70%
Trammel Points and Plumb Bobs	70%
Superfine Files	30%
Files and Rasps	75%

The Union Metallic Cartridge Co., Bridgeport, Conn., Hartley & Graham, New York, sole agents, announce the

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following discounts on Loaded Shells in full cases to jobbing trade. Terms, 60 days; 2 per cent. cash 10 days, f. o. b. Bridgeport or New York.

"New Club," Black Powder.....40, 10, 10&5%
"Black Club," Black Powder.....40, 10, 10&2½%
"Smokeless," Nitro Powder.....40, 10, 10, 10&10%
"Acme," Dense " " .....40, 10, 10, 10&10%
"Trap," Nitro Powder.....40, 10, 10, 10&10%

The Stowell Mfg. & Foundry Co., South Milwaukee, Wis., announce the following changes in discounts on goods named, to apply to 1898 catalogue:

Novelty Blocks ..... 50&10%
Snatch " ..... 50&10%
Tackle " Common ..... 50&10%
Shelf Brackets ..... 70&5%
Can Openers ..... 75&10%
Badger Door Hangers..... 60&10%
Baggage Car Door Hangers, No. 315.....33⅓%
Climax Door Hangers ..... 55&5%
Elevator " 40%
Interstate " ..... 60&15%
Magic " ..... 50&10%
Matchless " ..... 60&10%
Railroad " ..... 55&5%
Parlor " ..... 50&10%
Wild West " ..... 50&5%
Zenith " ..... 55&5%
Grindstone Fixtures ..... 55&10%
Hay Racks ..... 55&10%
Clothes Line Hooks..... 70&5%
Coat and Hat " ..... 70&5%
Harness Hooks ..... 70&5%
Hotel and Schoolhouse Hooks 70%
Barn Door Latches 33⅓%
Elevator Door Latches..... 33⅓%
Ceiling or End Pulleys..... 40%
Dumb Waiter " 50%
Hay Fork " 40%
Side Pulleys 50%
Steel Barn Door Rail ..... 35&10%
Parlor Door Rail, Planed Edge..... 50&5@50&10%
Registers, Warm Air—List, December 20, 1897:
Japanned ..... 40&10@50%
Brass or Bronze Finish 40%
Nickel Plated..... 40&10%
Stove Pipe Registers ..... 7.50 net
"Acme" Barn Door Rollers..... 50&10%
Sliding Door Sheaves. 50%
Shoe Lasts and Stands..... 75%

The Gem Mfg. Co., No. 167 Chambers Street, New York, under date of January 12th, announce the following changes in prices on their goods:

Gem Gas Burners, Self-Lighting .per doz., net, $2.50
" " In lots of 3 doz. " " 2.25
By-Pass Gas Cocks:
Gem No. 1, with Chains ..... per doz., net, $1.75
" " in lots of 3 doz ..... " " 1.10
Jewel Boiler Drying Racks..... per gross, 24.00
Gem Broom Holders..... " 4.00

The Cronk Hanger Co , Elmira, N. Y., under date of January 12th, name following net prices and discounts to apply to their 1898 catalogue:

Steel, Loose Axle, B. D. Hangers, Covered.....60&20%
Roller Bearing, B. D. Hangers.....70&10%
Barn Door Rail, Double Braced .....per foot,net, $ .02½
" " Competition ..... " " .02¼
" " O N. T. Style ..... " .02
Adjustable Stay Rollers .....per doz., net, 1.0
Inside Adjustable Stay Rollers .... " " .80
Steel Stay to Screw ..... " " .60
Sliding Door Latch, All Steel .... " " 2.00
Garden Rakes, Wrought Steel .....70&10%
Queen City Lawn Rakes, 20 teeth ..... net, $3.25
" " " " 24 " ..... " 3.50
Garden Mattocks 33⅓%
Fencing Plyers 25
Wire Cutter and Bender.....60%
Button's Improved Pattern Pliers.....70%
Stubs' Pattern Pliers 50%
Insulated, Safety Pliers 50%
Combination Gas Pliers 60%
Hasp, Latch and Staple..... 50%
Burner Pliers, No 90 .....40%
Gas Pliers, No. 100 ..... 40%
Flat Nose Pliers, No. 120.....33⅓%
Round " " 125 .....33⅓%
Pruning Shears 33⅓%
Queen City Chopping Knives .....per doz., net, $2.00
Rubber Chain Pump Valves..... " " .60
New Cronk Griddles..... 70%

THE MINNEAPOLIS TRADE.

Business is good for the time of year. We are having fall weather instead of winter weather. Building operations can be carried along about as well as any season of the year. No snow. Some little complaint from the lumbermen on this account, as it interferes with operations off from the main hauling road where they use sprinklers, and build what is practically an ice railroad; but the conditions are much more favorable for them than they would be if there were an over abundance of snow, as was the case last winter. There will be a large quantity of logs put in this season, and it is expected that the trade will be exceedingly good, and it is hoped that prices will be somewhat better than have been prevailing for the past few years. The past year as a whole has been unfavorable for the retail Hardware business. Prices have shrunk somewhat, and stocks if properly invoiced would show somewhat of a shrinkage. The last four months of the year show an improvement in the volume of business, jobbers, especially, being quite busy. There will be no extensive building operations going on here the coming year, either in the way of business blocks or residences; but as the mills and factories will undoubtedly give employment to a large force of help, and general trade will be better, we cannot help feeling that the Hardware business will receive some benefit.

W. K. MORISON & CO.

THE CHICAGO TRADE.

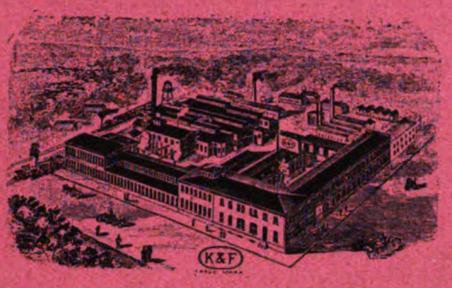
Owing to the fact that two of our competitors retired from business during November and December, we have been more than ordinarily busy thus far through the winter, with the largely increased trade that voluntarily came to us. And, in addition, have had a great deal to do in preparing for the road our largely increased force of traveling salesmen, many of whom have been recruited from the ranks of the late houses of John Alling & Co. and Horton, Gilmore, McWilliams & Co. We took advantage of the opportunity that presented itself and secured the services of a number of the very best men who formerly represented these houses.

Our trade during the month of December was the largest we have ever experienced, and at least 25 per cent. larger than that of December one year ago. We never had so many future orders on our books as we have at the present time. Most of our salesmen are out on the road enjoying a first-class trade, and, in addition, our mail order business is increasing in wonderful proportions.

From all sections of the West and Northwest, as well as through Michigan, Ohio and Indiana, we are receiving the



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Paterson, N. J., works, employing 500 operators.

THIS IS NOT

A FABLE.

Files and rasps have been made by us under our K. & F. brand for thirty years or more, and so excellent is their quality that they are now known in all parts of the world, they even being permanently intrenched in England, that stronghold of file manufacturing. With this large increase of business we have not lost sight of the importance of quality, and to-day make goods excelling all other brands on the market. As our business progressed, new methods of production and a wider knowledge of steel have absolutely resulted in a continued improvement of our K. & F. files and rasps. We say little about these facts but see to it that our customers get all the benefits possible from these improvements. . . . . .



A STRIKE.

FILES.

THE K&F TRADE MARK.

RASPS.

Every manufacturer and merchant realizes that a strike is a very serious matter. We, certainly do. In the past year our Paterson factory was closed for nearly five months by one of the most severe strikes on record. We won the fight, but to do so necessitated our very largely increasing our facilities, which we did by establishing a new plant at Kent, Portage County, Ohio. With this valuable addition to our capacity and with the advantages of cheaper fuel and lower freights we now feel that we are better equipped than ever for supplying the trade with the well-known K & F. full weight, perfectly cut and thoroughly tempered files and rasps. For the great leniency universally shown us by our customers during our late trouble we take this opportunity of thanking them. . . . .

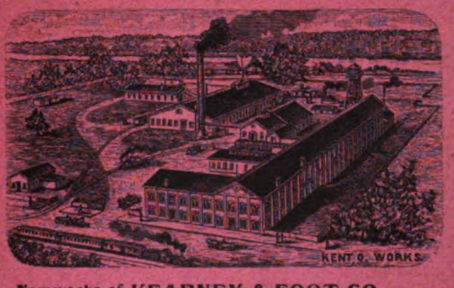
Our Best Friends are our Old Customers.

You Have Troubles, may be, with your files and rasps. Write us for **Relief.** **We will send it.** . . . . .

KEARNEY & FOOT CO.,

MAIN OFFICES.

100 & 102 READE STREET, NEW YORK, N. Y., U. S. A.



New works of KEARNEY & FOOT CO., at KENT, OHIO, occupying 50 city lots.

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MAGNOLIA ANTI-FRICTION METAL

Best Anti-Friction Metal for

Locomotives, Marine Engines, Stationary Engines, Electric Light Plants, Saw Mills, Rock Crushers, Stamp Mills, Pulverizing Machinery, Hoisting Machinery, Hauling Machinery, Drilling Machinery, Paper Mills and all other machinery bearings.

Two Thousand Testimonials

received during the last **Ninety Days** all bearing testimony to the fact that **Magnolia Metal lasts longer, runs cooler, shows a lower co-efficient of friction and requires less oil than any form of babbitt or brass.**

Beware of Fraudulent Imitations.

Genuine Magnolia Metal is made up in bars, of which this is a fac simile,



and the trade-mark and name are always stamped on bars and boxes, and besides this the words "Patented June 3d, 1890," and "Manufactured in U. S." are stamped on the underside of each bar.

IMPORTANT INJUNCTION NOTICE.

An injunction was granted Dec. 15th by Lord Chief Justice Russell in the Queen's Bench Division of the High Court of Justice, London, England, enjoining the Tandem Smelting Syndicate, Ltd., and restraining them from passing off their metal for our Magnolia Metal, it being made up so as to counterfeit Magnolia Metal.

One Thousand Dollars Reward

will be paid to any party causing the arrest and conviction of any person or firm infringing our Trade Mark or Patents.

The flower trade mark for **MAGNOLIA ANTI-FRICTION METAL** has been registered in every civilized country in the world.

This metal is being handled by thousands of dealers, in mine, railroad, electric and mill supplies throughout the United States and may also be secured through special agents at all principal distributing points in foreign countries.

MAGNOLIA METAL IS SOLD AT A FIXED SCALE OF PRICES, well-known to most dealers, and if any concern or individual offers Magnolia Metal "AT LOW PRICES" please remember the warning given in this advertisement to BEWARE OF FRAUDS.

If local dealers have not **MAGNOLIA METAL** in stock telegraph us your orders at our expense.

MAGNOLIA METAL CO.,

266-267 West Street, New York. 59 60-61 Traders' Bldg., Chicago.
49 Queen Victoria Street, London, E. C.
32 Victoria Street, Manchester.
Cable address New York, "Magnolia;" Cable address London, "Magnolier." Use A 1 Code.

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most encouraging reports, both from our customers and salesmen.

The prospect for a large business in the spring has never been better than at the present moment. Stocks of goods in the hands of the retailers are low. Prices at which we are selling goods are very favorable to the consumer. There seems to be an abundance of money in the hands of farmers and retail dealers throughout the West. Taking all things into consideration, we have every reason for believing that goods will be in active demand through the spring trade, and we have no doubt whatever but that some lines of goods will be higher in price.

WELLS & NELLEGAR CO.

THE PITTSBURG TRADE.

The editor invites us to prophesy for the coming year, no doubt thinking us either "a prophet or the son of a prophet," but he is sadly mistaken.

If our foresight were equal to our hindsight, we would have accumulated our share of this world's goods by this time, and be ready to retire.

However, as Patrick Henry remarked, "I know of no way of judging of the future but by the past," and those of us who have had a good deal of past ought to be able to do a little forecasting from experience. By that rule, we should say that 1898 ought to be a good one. We have had the usual number of lean years, and a fat one is due at this time. Aside from this, the great West has had prosperous times for the farmers in '97, and thus added immensely to their purchasing power. Our manufacturers have found new outlets for their immense producing capacity in foreign markets. The Alaskan region will certainly pour large amounts of gold into our country. This will tend to keep our currency on a sound basis, as well as add to our wealth.

Of course there are "ifs" and "buts" to be considered, such as foreign war contingency, failure of crops or some national calamity which cannot be foreseen; but, taking it all in all, the strong probability is that we shall have greatly improved conditions this year, whereat, if it comes true, this prophet (?) will greatly rejoice.

LOGAN-GREGG HARDWARE CO.

THE TOLEDO TRADE.

Taking a retrospective view of the business for 1897, we must admit that the same has not been the most satisfactory that one could have wished, still we are still in line for something better, and hope that the year 1898 will prove a grand success.

Prices on most all lines of goods are still very low, in fact prices on some goods are even being quoted lower than they were last year, but, on the other hand, staple goods are looking up, and no doubt will soon demand a higher price. A great many goods are seeking to be controlled by combinations or trusts. This we do not object to, providing these combinations do not advance prices to such a high plane that it only remains for a few months, or years, to invite such competition that will demoralize business in general and make losses to the parties holding a stock of the goods.

Looking forward to the year 1898, we hope and expect that the same will prove a successful year. We do not expect any boom, neither would we desire it; what we would like to see, however, would be a steady every-day business, and prices remaining at an equality with prices last inventoried.

We think that when the spring demand sets in that there will be somewhat higher prices on nails, wire, bar iron, steel, galvanized iron, tin plate, bolts and such goods that are close to the raw material, as no doubt the demand will be large, and prices consequently will be higher.

Trade in this section of the country at the present time is fairly good. Most all of our factories are working full time and with a large force of men; in fact there are by far more men employed at this time of the year than there was for the same time last year.

STOLLBERG & CLAPP CO.

THE PHILADELPHIA TRADE.

It is rather early to report on business for the new year, as some time is always necessarily lost in pricing salesmen and getting started on new business, but already a fair amount of business is reported, while prospects are certainly encouraging.

If manufacturers are to be believed, prices must inevitably be higher on many lines, but it naturally takes a revival of business to bring this about.

The wire interests appear to be appraaching consolidation, and if this is done, the effects are so far-reachieg they would be difficult to estimate.

At present there are but few changes in quotations, and manufacturers are narrowly watching the market for an opportunity to advance figures.

One of the most encouraging signs is the improvement in collections which has been manifest for some time, and, owing to the increased amounts being paid for wages, bids fair to be permanent. BIDDLE HARDWARE CO.

THE ST. PAUL TRADE.

The business of the year 1897 is now closed, and its results are a matter of record that interest only as they are referred to for comparison. The new year is so far advanced that most persons can write "1898" without making the usual mistake that occurs so often during the first days of the year. How does the new year open? Weatherwise, we never experienced so pleasant a January in this locality as the one now nearing its end. Bright sunshine, no snow, and no colder than early November.

OUR NEW GARDEN HOSE BOOKLET

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

Is ready. It gives a full description of our '98 line—eight grades of Rubber Hose and two of Cotton, ranging from the finest hose we know how to make, down to a good, serviceable article at a low price. **The booklet is the handsomest we have ever issued, and is a capital advertising medium for customers handling our line.** We will be pleased to furnish our friends with as many booklets as they can use. Call or write for them, and also for hose samples and prices at any of our stores.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Philadelphia. ..308 Chestnut St.
Boston.....24 Summer St.
San Francisco.. .500 Market St.
Cleveland.....W. H. H. Peck Co.
N. Orl'a, Woodward, Wight & Co.

NEW YORK BELTING & PACKING CO. LTD

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co.,* 91 Congress St. E., *Detroit, Mich.

Does this condition conduce to a good business? Yes and no. Yes, in that the bright sunshiny days inspire hope and courage, and our customers are more disposed to anticipate their wants than they would be if cold storms prevailed and the ground was buried in snow. No, in that *their* customers cannot haul their farm products, wood ties, etc., to market without large additional expense over what it would cost if sleighing was good, as their horses' shoes will only last a few days on the hard frozen ground, and so they remain at home, hoping and expecting the snow will soon fall.

On the whole, business with the jobber is very much better than it was a year ago: the prospects for the future are now more than promising, and the average man is cheerful and courageous. Occasionally we meet a calamity howler who will not have it that we can have good times under present conditions, but it is evident that with him "the wish is father to the thought." We have read of the formation of clubs called "Don't Worry Clubs." Would it not be well for us all to join one?

At any rate, let us all imbibe what we can of the spirit of hopefulness, and *look* for pleasant things in business instead of the disagreeables that we have had so much during the last five years, and we certainly will have more comfort even if we do not have as many dollars as we would like.

C. W. HACKETT HARDWARE CO.

The Abuse of the Circular.

As a means of advertising, the modern circular has been pushed to extremes. It has been multiplied to the point of excess, and in many instances become a declared nuisance. It has become a burden to the mail carrier and an eyesore to the man of business. The one in his line of duty carries it, and the other, to save his eyes and his temper, consigns it to the waste-basket. In a majority of instances it is brushed aside without perusal, while the man who paid the expense of printing and mailing has to subsist on faith rather than on returns. This is to be deplored, as a waste of time and enterprise. All kinds of means are in use to make the circular attractive. Some are really fine specimens of art and also of effective decoration. The printer is lavish with his skill and the lithographer with his tools, but in spite of artistic aids, the ornate missive is generally unappreciated and seldom read. Business men as a rule, while keen enough in scent of business, are not disposed in favor of literary bouquets. The circular is frequently an enflowered communication. In literary, medical and other professional lines, it has its special fitness, but with the manufacturer and merchant it has passed beyond its sphere of usefulness. There is nothing sinister or objectionable in its purpose; it has a clean commercial intent and is praiseworthy in its artistic effort to make its presentation attractive, but in spite of this it has spoiled its mission by glutting the waste-baskets of business houses. It is a matter of question as to whether a dodger given away in the street, or a chromo given with a package of baking powder, is not of more direct advertising value than many of our high-cost circulars. An advertisement to be successful must not be of a vagrant intermittent kind. When placed in the right paper and kept there it becomes familiar to the reader's eye. It takes root in his memory, and if it meets his wants as a business man, that is the particular peg on which he hangs his hat, or the pile on which he places his order. The steady "ad." is a lodestone and if it takes time to attract trade, it eventually does so. Returns are not always prompt, and no doubt are sometimes disappointing, but the advertiser is querulous and unreasonable, who, having put his eggs under the hen, looks for chicks before they have time to hatch. If much of the money now expended on circulars was devoted to persistent and rightly placed advertising, we are of the conviction that it would be better for all concerned.—*Age of Steel.*

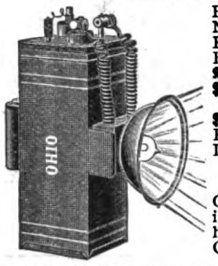
C. J. Kimball Co., Bennington, N. H., Allerton, Clarke Co., agents, No. 79 Reade Street, New York, have recently issued their cutlery catalogue for 1898 business. This company succeed to the old established business of C. J. Kimball & Son, so long identified with the manufacture of the "Kimball" shoe, butcher and kitchen knives and small tools generally. The new company having bought out the business of a similar kind formerly run by Wilbur Webster, of East Jaffray, N. H., they can now supply the "Webster" brand of shoemakers' cutlery, maintaining its acknowledged excellence on a par with their own. The catalogue before us embraces all the usual varieties of shoe, bread, butcher and fish knives, including oyster, cigar, paper and banana knives; drawing knives and screwdrivers are also represented in its pages.

Farwell, Ozmun, Kirk & Co., St. Paul, Minn., are sending their customers a number of pamphlets and catalogues having reference to several departments of their large and extensive business. We have received their catalogue of "Crawford" Bicycles, for which they are sole Northwestern distributors. This is very attractively printed on coated paper in two colors, the illustrations being in brown and the text in blue, and the contents of which cover the entire line of wheels made by this company. A pamphlet of sixty pages, covering their entire line of paints of every description, together with paint and kalsomine brushes, sandpaper, glue, varnishes, glass cutters, etc., and other similar goods, that went with a ready sale among their trade.

Western Block Co., Lockport, N.Y., Surpless, Dunn & Co., agents, No. 55 Warren Street, New York, have issued their catalogue for 1898 trade. It is a handsomely printed pamphlet of fifty pages, with stiff cloth covers. It embraces their full line of "Anvil Broad" wood, wrought iron and steel tackle blocks, and including all the usual varieties of rope strapped, roller, phosphor bronze and metaline bushed blocks suitable for the wants of the trade. The catalogue is a very complete one, full of information regarding these goods, and will be forwarded upon request.

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WE UNDERSELL ALL.
It gives a Light that's White and Bright,
And two cents is the cost per night.



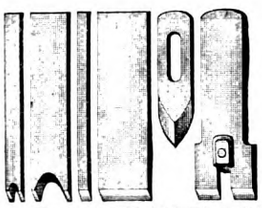
Bicycle Elec. Lights.	$4.0
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3 9
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells....	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

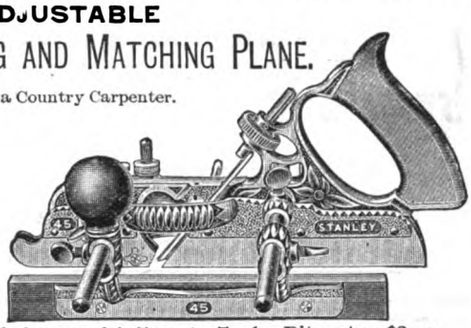
Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . . Catalogues free.

OHIO ELECTRIC WORKS, CLEVELAND, O.

STANLEY'S ADJUSTABLE
BEADING, RABBET, SLITTING AND MATCHING PLANE.
"A Planing Mill within itself,"—says a Country Carpenter.





No. 45. Nickel Plated Stock and Fence, with Twenty Tools, Bits, etc., $8.00
SOLD BY ALL HARDWARE DEALERS.

American Plows for Greece.

A dispatch from Washington of a recent date, states that the Greek government wishes to purchase at least ten thousand plows to distribute among the Thessalian refugees in order that they may return to cultivate the land they abandoned at the approach of the Turks. Thessaly is mostly a plain, with sticky, clayey soil, in which wild plants and roots abound. The Thessalians are just now a burden on Greece, and King George has a committee at work testing implements for them on a farm near Athens. Native plows are good but expensive. Wood is scarce and costly, so Greek plows are made wholly of iron and steel, on which there is a high duty. Agricultural implements are, however, admitted free. This good "tip" to American manufacturers came to the State Department recently from George Horton, Consul at Athens. He says a firm in Smyrna sent over some American Oliver plows, which were better than any Germany, England or France offered, but the agents wanted high prices for them, though they were not best grade. Consul Horton told the committee that Americans make better, stronger, lighter and, quality considered, cheaper agricultural appliances than any country in the world. This interested the committee, and if they get catalogues and prices, promptly followed up by visits from agents, Americans will have more than a chance for the contracts.

The Keyless Night Latch.

In these days of chainless wheels, smokeless powder and other thingless things, it is quite natural that some genius should invent a keyless night latch. Keyless locks have been common enough upon safes and cash drawers since the day of Butterworth's original invention, but to this day all of these permutation locks depend upon eyesight. For years it has been the boast of safe-lock makers that their combinations defy the finest sensibilities of sandpapered fingers. That would kill the keyless night latch at the start, because it is a night lock, and must necessarily be worked in the dark. A Jerseyman is the inventor and patentee of the new device, and he is just a little bit afraid that it may add to the volume of profanity in the world, but he feels sure that it will be appreciated by people who invariably go straight home, or home straight, and ordinarily have half a dozen flat keys on a ring, all of which feel alike in the dark.

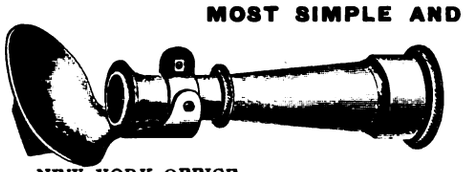
His latch has no keyhole, and works with a knob which looks like any ordinary doorknob, but is arranged so that it makes a series of sharp clicks as it is turned. These clicks can be felt as well as heard, so that a deaf and blind man can read them as he turns the knob. Two clicks to the left and three to the right will open a door if the combination is set at 25, or it may be set at any figure up to 999, with all of the advantages of the terms involved in a short thousand of numerals.

It is extremely simple in its mechanical details, but it would take a stranger some weeks to open the door if he did not have a tip on the combination. If a rounder has any doubts of his ability to remember the combination of his front door he can set the knob at his age, that of his wife or mother-in-law, or even the street number, straight or transposed, and then there will be little chance of his forgetting it.—*New York Sun.*

The National Saw Co., Newark, N. J., are sending out a very pretty lithographed calendar, printed in several colors. The illustration depicts a characteristic Western scene, where the celebrated cross-cut saws made by this company have been getting in their work, taking the first step in the preparation of timber land for its subsequent use by the industrious farmer.

The Cronk Hanger Co., Elmira, N. Y., the well-known manufacturers of Steel Barn Door Hangers, Tracks, etc., are very successfully placing upon the market Cronk's Patent Fencing Plier and Staple Puller. This excellent tool has just been patented and is selling as rapidly as the manufacturers can furnish it.

ORDNER M'F'G CO., CLEVELAND, OHIO.
Manufacturers of the
PARAGON Lawn Sprinkler and Nozzle . . .
MOST SIMPLE AND DURABLE.



Write for Prices and Descriptive Circular to the Trade.

NEW YORK OFFICE,
394 Canal St., N. Y. City.

HOME OFFICE,
249 Genesee Ave., Cleveland, O.

TRY SOMETHING NEW.
The PLANET LEATHER Dust Beater.



They are made of leather, with fancy enameled handles. Will not break nor injure finest furniture or upholstery. Made in 4 lengths. Retails popular prices. Write for catalogue and price-list.

PLANET MFG. CO., Holyoke, Mass., U. S. A

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

Don't MUTILATE Your papers with pins or fasteners but use the

GEM PATENTED.

"GEM" PAPER CLIP

Only satisfactory device, for temporary attachment of all kinds of papers. Quickly applied and removed. 25 Cents a Box. . . .

CUSHMAN & DENISON, 174 9th Ave, New York.

British Goods in the Colonies.

The *Age of Steel* says: "The displacement of British goods in colonial markets has been, and is, of so serious a nature that a searching investigation has been made both as to the causes thereof and as to the articles that are less in demand. An English contemporary classifies the causes under three heads—pride, supineness and absolute neglect. It is not a matter of ability, but pig-headed conservatism. In Queensland 50 to 60 per cent. of Hardware is imported from Germany, America supplies 75 per cent. of implements and of ironware generally and Belgium and Germany monopolize from 75 to 80 per cent. of the trade. In New Zealand imported machinery is largely British, but in the implement trade, such as reapers, binders, mowers and seed drills, the United States supply the greater bulk. In firearms, glassware, saws, axes, nails and hammers American and European makes are preferred to the British article. Adaptability to local tastes, lightness and cheapness and an intelligent effort to push business are not to be offset in securing a market by any false notions of supremacy or a foolish pertinacity in sticking to forms that are becoming obsolete."

The English Way.

Put away season's goods promptly, nothing looks worse than to see paraffin cooking stoves, fly-cheat meat safes, dish covers, and such like articles showing in October or November. Directly the demand for any particular article is on the wane, remove it, for it is not earning you anything, and replace it with something more seasonable. Don't put them aside to do up and put away at your leisure, for that time seldom or never comes in an ironmonger's establishment. Do it at once, and if any article is incomplete or broken, don't put it away so, but order the part wanted at once, and then when you want to show that particular article again you need not fear to open the paper before a customer. It gives a tone to a shop to be able to show a thing out of season which is bright and clean. Apprentices of to-day don't know what cleaning goods means, when compared with the apprentice of by-gone days; his whole time was made up of cleaning goods or nail weighing, and he was not allowed to do any counter work until he was in his fourth or fifth year. They served seven years then.—*Ironmongery.*

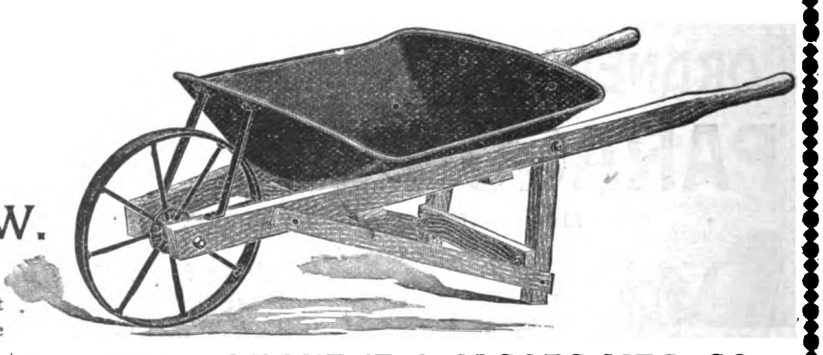
Nason Mfg. Co., No. 71 Beekman Street, New York, have recently issued their 1898 catalogue, which is a muslin flexible covered volume of 432 pages, complete with illustrations and lists of prices for wrought and cast iron pipe, etc., brass and iron valves and fittings and general supplies for steam, gas, water, ammonia and oil. The catalogue covers also a full line of steam and gas fitters' and plumbers' tools and supplies, with such necessary specialties as are applicable to steam and hot water heating. Among the several features that make this catalogue of unusual value to the dealer in the goods sold by this company, are a number of pages devoted to general and practical information pertaining to steam and hot water heating, which have been compiled from the leading works on the subject and are here condensed and made more accessible. Added to this desirable information will be found a discount table, showing at a glance the equivalent and net of any amount, from 25 per cent. to 77½ and 10 and 10 per cent., with every possible variation between the two extremes. This catalogue will be found a valuable one, and should be in the Hardware library of all dealers selling such goods as are above referred to.

Situation Wanted.

OFFICE MANAGER, fifteen years' experience in general Hardware business, familiar with all details of manufacturing Hardware specialties, correctly tabulating statistical information, man of ability, judgment and experience, expert financier, with good executive ability, rapid and original letter writer, practical turn of mind, quick, comprehensive and energetic, would like a position by February 1st; expectations moderate; highest integrity. Address A. B. C., office of HARDWARE, No. 143 Chambers Street, New York.

AN efficient and experienced lady stenographer and expert typewriter, is open for an immediate engagement. The highest references given. Address K. E. N., care HARDWARE, No. 143 Chambers Street, New York.

PAN-AMERICAN R.R. BARROW.



With Round Steel Spoke Wheel
The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.

Write THE KILBOURNE & JACOBS MFG. CO.

COLUMBUS, O., U. S. A.

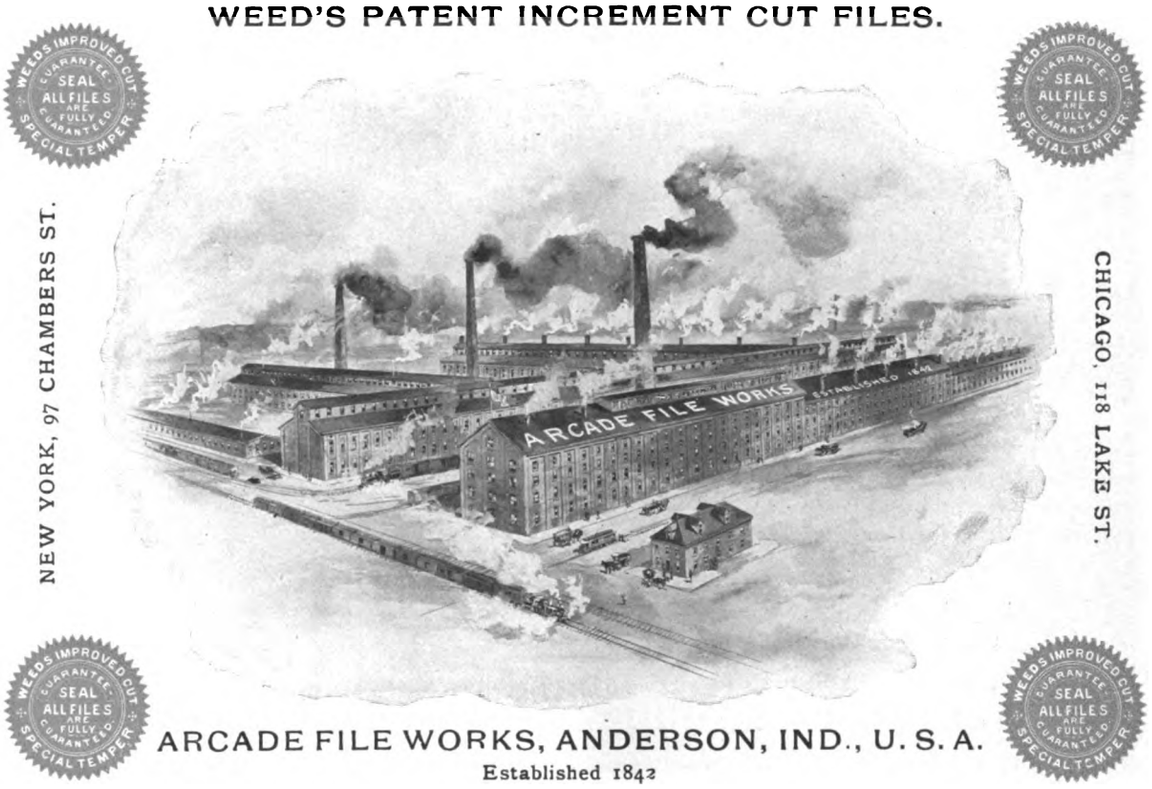
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IF IT'S AN ARCADE, IT'S THE BEST.

That the ARCADE FILE WORKS at Anderson, Indiana, is the largest and most completely equipped plant for the manufacture of files in the world is a minor point. It's product is what you are interested in and the Arcade product stands at the head of file production for the common sense reason that their methods and facilities are ahead of their competitors.

Mr. Alfred Weed, who is the superintendent and mechanical head of the company, is one of the oldest file makers in the United States, and has probably taken out more patents on file machinery than any other living manufacturer. The entire plant at Anderson is the product of his skill and practical experience, comprising machinery especially designed for turning out every detail of the work, not only by the most careful and systematic methods but with the greatest possible saving of time and money. Fifty cents goes as far here as a Dollar in many of the old fashioned plants. Then, too

WEED'S PATENT INCREMENT CUT FILES.



ARCADE FILE WORKS, ANDERSON, IND., U. S. A.
Established 1842

the company owns a tract of natural gas land from which their fuel supply is drawn—the cheapest fuel in the world; and buyers of ARCADE files get the advantage of all these economies by the increased value of the product.

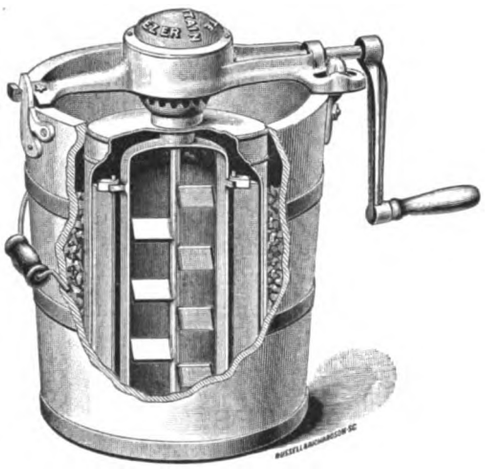
These facts show why it is safe for us to sell files under our guarantee that THEY WILL CUT FASTER AND WEAR LONGER THAN ANY OTHER FILE ON THE MARKET, OR WE WILL MAKE NO CHARGE. All our files have Weed's Improved Increment Cut, which equals the best English Hand Cut.

If you use files take advantage of this offer on a trial order, however small. There's absolutely no risk to you in the trial.

IF IT'S AN ARCADE, IT'S THE BEST.

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WHITE MOUNTAIN FREEZERS



Sizes 1 to 25 qt. inclusive.

Positively the Best Freezer Known.

THE IMPROVED WHITE MOUNTAIN FREEZER

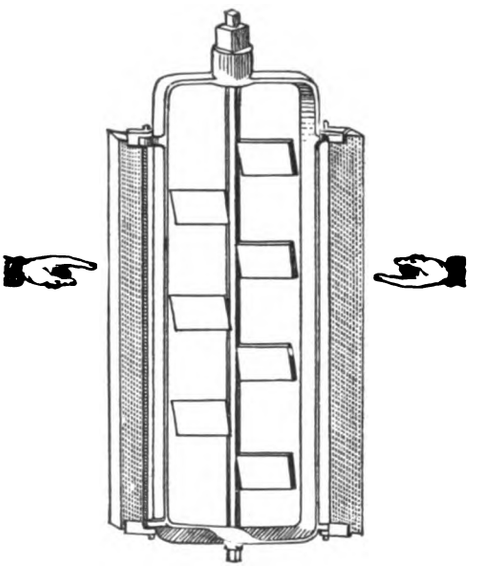
is always used as a basis of comparison by other manufacturers, because wherever it is introduced it at once establishes a reputation to produce better ice cream and more of it, more economically and in less time, than any other Freezer in the whole wide world. . . .

WE ORIGINATED

and were the first to use the now famous

DOUBLE SELF-ADJUSTING WOOD SCRAPING BAR

which has proven a revelation in Ice Cream Freezer manufacture. It was this device, used in connection with Duplex Dasher of the **WHITE MOUNTAIN FREEZER,** that first enabled the operator to produce fine, smooth cream in less than one-third the time previously required with ordinary freezers. . . .

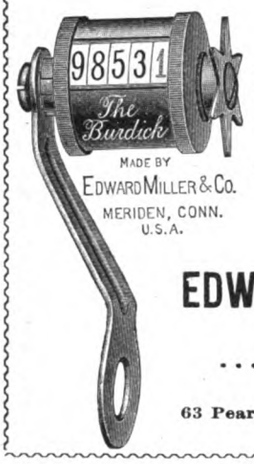


There is only one White Mountain Freezer.
We originate . . . . . Others follow.

The White Mountain Freezer Co., Nashua, N. H.

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The BURDICK CYCLOMETER.



Weight 1 Ounce.

10,000 Miles and Repeat.

New Principle. Reliable. Best.

Dust Proof. Water Proof.

1898 GOODS.

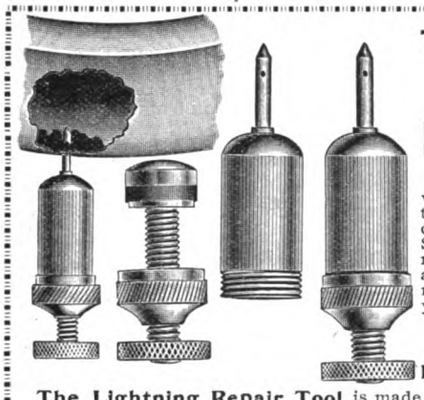
MILLER'S A1 LAMP.
EVERLIT LAMP.
ROYAL BELLS.

EDWARD MILLER & CO.,

Factories and General Office,

...MERIDEN, CONN...

STORES:
63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.



THE IMPROVED
Lightning Repair Tool

We want to correspond with every tire manufacturer and jobber of bicycle sundries in the United States, Canada and Europe. We have the best and cheapest repair tool made. We can interest you.

A. L. DEANE & CO,

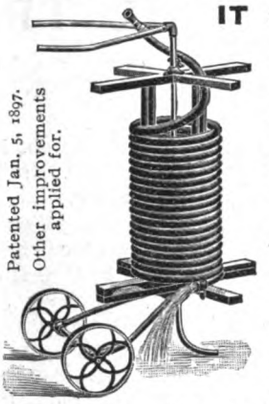
DENVER, COL., U. S. A.

The Lightning Repair Tool is made under one or more of the following patents:

United States of America,	No. 571,422, Nov. 17, 1896.
United States of America,	No. 591,443, Oct. 12, 1897.
Dominion of Canada,	No. 55,259, Mar. 15, 1897.
Germany,	No. 73,654, Apr. 20, 1897.
United Kingdom of Great Britain, Ireland, and Isle of Man,	No. 8,298, Mar. 31, 1897.
Republique of Francaise,	No. 265,733, Apr. 6, 1897.

The Hartzell Self-Draining Hose Reel

IT SELLS RAPIDLY.



Patented Jan. 5, 1897. Other improvements applied for.

It is scientifically and mechanically constructed.

It is a nice ornament and a great convenience in spraying and watering a lawn.

The hose is not kinked, twisted, crushed or drawn to a tension, thus avoiding the breaking of either the inner or outer walls of the hose which protects the fabric and prevents it from becoming water soaked, which usually causes the rapid destruction of the hose.

It drains all the water out of the hose, after it has been reeled, and keeps it always in good order, ready for service.

Each section of hose is independent of the others and may be easily detached at the top or bottom.

It sells at sight, because any person who owns a garden hose can readily see its advantages and superiority.

Jobbers are especially solicited to handle our goods to whom lists and prices will be furnished upon application.

DEALERS ask your Jobbers for the HARTZELL SELF-DRAINING HOSE REEL and insist on getting it.

If they will not supply you address us for prices, circulars and lists.

The Hartzell Novelty Works, Alliance, Ohio, U. S. A.

SHOOT BLUE ROCKS.

For Sale by all Jobbers.

Foreign Trade Supplied Direct or Through Exporters.

The Cleveland Target Co.,
Cleveland, Ohio.



"BEST CLASS TRADE FROM HARDWARE LINE."

Sager Mfg. Co., Rochester, N. Y. [*Bicycle Saddles and Specialties*]: We have received a large proportion of the best class of trade from the Hardware line. We always regard it advisable to dispose of our goods wherever we can do so to advantage. We see no reason why the Hardware trade should be excepted.

"'HARDWARE' IS READ BY THE DEALERS."

Forehand Arms Co., Worcester, Mass. [*Arms*]: In the numerous inquiries received daily, reference is made to HARDWARE as often as to any other publication, which shows that HARDWARE is read by the dealers.

"CANNOT FAIL TO HELP OUR BUSINESS."

J. C. Tanger & Co., Hanover, Pa.: Please find $1 enlosed for one year's subscription. After examining a specimen copy, we think it one of the best, and that it cannot fail to help us in our business.

"WELL PLEASED WITH 'HARDWARE.'"

W. W. Johnston, Bartlett, Ohio: Enclosed find $1 to pay my subscription to your journal. I am well pleased with the paper, and think it would pay all dealers in Hardware to take it.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Casselton, N. D.—Casselton Hardware Co., incorporated: $15,000.

Dallas, Tex.—The Kelly Furniture, Carpet & Hardware Co. Capital stock, $10,000. Incorporators: William Kelly, F. B. Ingram and A. Kelly.

Decatur, Ala.—Willis Kennedy, formerly with J. D. Wyller, will open up a Hardware store on Bank Street. His brother from Culman, Ala., will be with him.

Elmira, N. Y.—Barker, Rose & Clinton Co., to deal in Hardware. Capital stock, $100,000. Directors: Frederick Barker, Stephen Rose and Arthur Clinton, Elmira.

Friendship, N. Y.—The Drake Hardware Co.; capital stock, $20,000. Directors: Charles L. Howard, Kent, Ohio; Charles A. Day, Jamestown; B. Frank Drake, and Leonard S. Howard, Friendship.

Lowell, Mass.—E. P. Flanders will open a Hardware and paint store at Nos. 663-667 Middlesex Street, about March 1st, 1898, under the name of E. P. Flanders & Co. He would like to hear from the manufacturers in the way of catalogues, price-lists, etc.

Rome, N. Y.—The new Hardware store of Raffauf & Bael, No. 115 South James Street, has been opened for business. The new firm is composed of enterprising young men. Mr. Bael has been in the bicycle business for two years, while his partner has been employed by the Wardwell Hardware Co. for thirteen years. They will carry a general line of shelf and heavy Hardware, blacksmiths' supplies, etc., and bicycles.

Wallingford, Conn.—The Leighton, Boynton & Ives Co. filed articles of association. They have a capital of $3000, and will carry on the business of a general Hardware store.

Changes and Improvements.

Albany, Mo.—W. P. Stapleton, Hardware, now Albany Hardware Co.

Alma, Kan.—Fred Lutz, Hardware, succeeded by Conrad Mueller.

Bloomfield, Iowa.—Higbee Hardware Co., Hardware and agricultural implements, succeeded by E. T. Matthews.

Carroll, Iowa.—Martin & Nurre, Hardware, reported to have sold out.

Elkhart, Ind.—The Jones Hardware Co., Hardware stock purchased by Ed. T. Parker, of Hillsdale, from assignee D. M. Best,

Goliad, Tex.—William Thomas, Hardware, succeeded by J. D. Seeligson & Co.

Groesbeck, Tex.—Finn, Fowlkes & Co., Hardware, J. D. Whitcomb has purchased an interest in the Hardware business, and will continue to do business here.

Henderson, Minn.—L. C. Rudon, Hardware, succeeded by Basel & Hedtke.

Hutsonville, Ill.—Rains & Colliflower, Hardware; H. Rains has disposed of his interest in the business. The new firm name will be Colliflower & Cox.

Lansingburgh, N. Y.—Gray & Temple, plumbers, etc., reported to have dissolved partnership.

Le Sueur, Minn.—Thomas L. Osborne, Hardware and agricultural implements, succeeded by P. J. Huberty.

Lisbon, Me.—A. H. Macurda, Hardware, succeeded by C. B. Allen.

Lock Springs, Mo.—J. Mansfield, Hardware, succeeded by R. Mansfield, Jr.

Lyons, Ind.—R. O. Law, Hardware, moved to Switz City.

Middletown, N. Y.—Ebner Bros., plumbers, etc., succeeded by Joseph O. Ebner.

Minneapolis, Minn.—D. L. Nash, Hardware, succeeded by Leavitt & Nash.

New Albany, Ind.—Huncilman & Co., stoves and tin, succeeded by Barbee & Huncilman.

New Market, N. H.—Young & Young have moved into their new Hardware store, which is fitted up to date, and is the finest Hardware store in that section.

Newport, Tenn.—Ragan & McSween, Hardware, have moved their business to building formerly occupied by Kyker & Harrison.

Pleasant Dale, Neb.—John Koller, Hardware and agricultural implements, succeeded by H. H. Behmerwohld.

Reinbeck, Iowa.—Watson & Sschirgi, Hardware, succeeded by John Watson & Son.

Saranac Lake, N. Y.—H. H. Tousley, who was burned out some time ago, has rebuilt a new store, 30 by 60 feet. The interior is fitted up with solid cherry fixtures. He will have all modern improvements and is ready for business.

Scandia, Kan.—Carstensen & Cullers, Hardware, C. P. Carstensen sold his interest.

Seymour, Iowa.—Prugh & Brooks, Hardware, reported to have sold out.

Stillwater, Minn.—H. F. Emery, Hardware, succeeded by August Loeber.

Ulysses, Neb.—Patrick & Hormel, Hardware, succeeded by E. R. Hormel.

Union Hill, N. J.—G. A. Hoffmann has purchased at public sale the Hardware stock of F. W. Stuke, Union Hill, N. J., and will continue the business at the old stand, under the name of the Anchor Hardware Co.

West Point, Miss.—Deane & Coleman, Hardware, etc., reported to have sold out.

Business Embarrassments.

Hamilton, Ohio.—The Cass Hardware Co., one of the oldest firms in this city, assigned to George Phohngen. Assets, $18,000; liabilities, unknown.

Spencer, Ind.—D. B. Cauble, Hardware; reported to have made an assignment.

Milwaukee, Wis.—The firm of William Peterman & Sons, Hardware dealers, at No. 433 East Water Street, have made a voluntary assignment in favor of William Klug. The liabilities of the firm are $12,000, while the assets are reported to be $2000 less.

Montgomery, Ala.—The Reid Hardware Co. have made an assignment to Maner & Elmore. The liabilities are about $2000. The assets will cover this amount.

St. Louis, Mo.—Hynson Hardware Co.; reported to have made an assignment.

Trenton, N. J.—The assignment of William H. White & Son, Hardware dealers, of North Broad Street, was announced recently. The assignee is John Sykes. The assets are put at $20,000, and the liabilities at $23,000. It is hoped that some arrangement may be effected by which the business may be continued.

Burglaries in Hardware Stores.

Kansas City, Mo.—Burglars broke the fastening of a rear door of the Brunner Hardware store, No. 910 Walnut Street. They robbed the cash till of $6, three counterfeit and plugged coins and a half dozen knives and forks.

Kennett Square, Pa.—The general Hardware store of John M. Chalfant was entered by burglars, and a large quantity of knives razors, revolvers and cutlery was taken. The loss will amount to about $200.

Lake Charles, La.—G. T. Rock, $60.

Minneapolis, Minn.—Joesting & Schilling, $300.

Recent Fires.

Amsterdam, N. Y.—Ray J. Morgan & Co., $12,000.

Baltimore, Md.—John R. M. Adams, Hardware, damaged by fire.

Cherryvale, Kan.—D. O. Candry, Hardware and agricultural implements, destroyed by fire.

Commerce, Tex.—R. C. Hill & Co., damaged by fire at a loss of $1000; no insurance.

Commerce, Tex.—W. E. Sayles, Hardware, damaged by fire at a loss of $6500; insured for $4200.

Denison, Tex.—The Hardware store of Pollard, Hoare & Co., and the dry goods house of Madden, Graham & Co., of this city, were destroyed by fire. Estimated loss, $200,000, partially insured.

Emporia, Va.—A can of oil was overturned and ignited in the store of W. T. Tillar, and but for hard work upon the part of a number of the citizens a most destructive fire would have been the result. Mr. Tillar has a Hardware business and keeps a large stock of loaded shells, and it was a hard struggle to throw them out of the way before the flames reached them. The damage will probably amount to about fifty dollars.

Holly, Mich.—Fire broke out at midnight over the store of the Nicholson Hardware Co., and although there was little destroyed by fire, the entire stock of Hardware was flooded with water. Fire was caused by a small oil stove, which exploded. The stock was insured for $5000.

Minneapolis Minn.—Boughton & French, Hardware, destroyed by fire.

Pittsfield, Mass.—The Pierson Hardware Co.; stock damaged by fire.

Windsor, Vt.—Penniman & Payson, Hardware, damaged by fire at a loss of $10,000.

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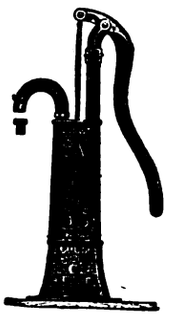
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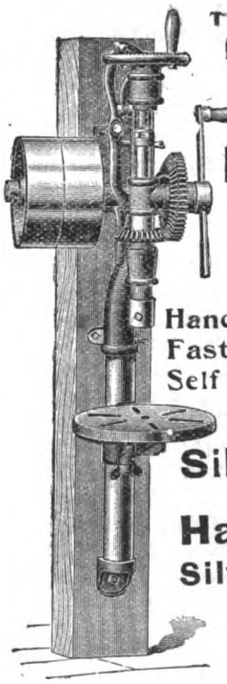
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Cut Gears, Combined Lever and Wheel Feed. Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Etc.

Baltimore, Md.—The Coale Brass Mfg. Co. has been incorporated by Joseph M. Coale, Frank W. Coale, Joseph G. Coale, Walter I. Coale and William J. O'Brien. Capital stock, $15,000.

Big Rapids, Mich.—H. B. Herrendeen & Co. and Wils. D. Osborn have formed a partnership for the manufacture of a sheet iron stove, under the firm name of Herrendeen & Co.

Bristol, Conn.—A certificate of organization has been filed by the Wallace Barnes Co. of Bristol. The company has a capital stock of $30,000, divided into 300 shares of $100 each. The company is organized for the purpose of manufacturing and selling Hardware and sundries.

Cleveland, Ohio.—While the site of the new factory of the Born Steel Range Co., which is soon to be erected in Cleveland, has not been definitely decided upon, it is pretty certain that the plant will be located on the flats. The space to be occupied will be about 150x600 feet, or 300x400 feet, as the exigencies of location may render advisable. The new works will give employment to about 300 men. The establishment at Galion will remain in operation. The addition was rendered necessary by the increased demand for the goods of the company.

Detroit, Mich.—The Sun Vapor Stove Co. have filed articles of association. The capital stock is $100,000, all paid in.

Deshler, Ohio.—House, Heflinger & Co., H. L. House, Dr. L. M. Gehrett, T. M. Troup and D. S. Troup, have formed a copartnership for the establishment of a plant for the manufacturing of plow points, steam cookers and other implements. They have leased large buildings and expect to be in operation in thirty days with a working capacity for fifty men. G. L. House is general manager. The Troup brothers are the patentees of the plow point.

Lansdale, Pa.—Lansdale is to have a new stove foundry. It will be located on Seventh Street, on the Doylestown branch of the North Pennsylvania Railroad. The main structure is to be 30 by 48 feet, with a foundry attached, 20 by 40 feet. Its cost will be about $5000. The works will be operated by Vanfleet & Nixon, of North Wales.

Milton, Me.—The W. L. Armiger Mfg. Co. has been incorporated by W. L. Armiger and others, to manufacture stoves, etc. Capital stock, $50,000.

Murfreesboro, Tenn.—The Brown Common Sense Harrow Co. has been incorporated with Joe P. McGregor, president; J. R. Nelson, treasurer; W. A. Ransom, Jr., secretary-treasurer. The company will build immediately a factory for harrows, etc. Capital stock, $20,000.

Newburg, N. Y.—The American Brass Works; capital stock, $30,000. Directors: A. E. Anderson, Kingston, and W. G. Ladd and C. B. Riker, New York City.

New York, N. Y.—The Gutta Percha & Rubber Mfg. Co., filed with the Secretary of State a certificate of increase of stock from $800,000 to $1,000,000.

Sheffield, Ala.—The Lizzie Lowman Stove Works, B. J. & S. A. Lowman, proprietors, are now nearing completion, and will shortly start operations. They have a capital stock of $10,000, and capacity for thirty stoves daily, besides other kinds of foundry work.

Springfield, Ohio.—The Champion Furnace & Stove Co. has been organized here. It will occupy a portion of the East Street shops and will start up shortly.

St. Louis, Mo.—The Farnham Mfg. Co. have filed incorporation papers with a capital stock of $100,000. F. Howard Farnham is the principal stockholder. Other stockholders are Walter S. Crane, M. T. Clark and B. F. Wyler. The company is organized to manufacture shears, scissors and other improved cutlery.

Waynesboro, Va. — Jno. H. Giles and Charles Plumb will start a stove foundry under the name of the Reliable Stove Works. They will manufacture cook and heating stoves, do casting and general repair work.

Changes and Improvements.

Aurora, Ill.—Rathbone Sard & Co., proprietors of the stove works, have for a long time contemplated moving their general office to Aurora, and making Chicago a branch office. It is now definitely settled that this will be done, the removal to occur during the coming spring.

Akron, Ohio—The plant of the Falls Rivet & Machine Co., located at Cuyahoga Falls, which went into the hands of a receiver about a year ago, has been sold for $202,000. George G. Allen, who represented the creditors' committee, bought the plant at that figure. The works are one of the largest of the kind in the country. A new company will be organized, which will operate the plant. About 300 men are employed when the works are run on full time.

Beaver Falls, Pa.—H. M. Myers & Co. have started up their shovel factory in full.

Freehold, N. J.—The annual meeting of Stokes Brothers File Mfg. Co. has been held. The capital stock is $40,000, and a dividend of twenty per cent. was declared. A considerable amount was carried to the surplus account, which now amounts to over $12,000.

Muskegon, Mich.—The Crescent Mfg. Co. will at once increase the capacity of its nail keg factory 75 per cent, because of increasing business and the prospect for 1898. The improvements will consist of additions to the dry kiln and steam baths and a new lathe. They must be completed by Feb. 15th.

Recent Fires.

Chicago, Ill.—The F. C. Austin Mfg. Co., agricultural implement factory destroyed by fire, at a loss of $60,000; insured.

Greene, N. Y.—The Lyon Iron Works were burned to the ground. The fire was discovered by parties living near at about 1 o'clock. The firemen made a brave fight and succeeded in saving the large planing mill and pattern house. The machine shop was entirely destroyed and the molding rooms partly. There is an insurance of $17,000. The loss is nearly that amount.

Milton, Pa.—The Milton Mfg. Co.; the washer, nut and bolt department, destroyed by fire at a loss of $16,000.

Worcester, Mass.—The Warren Specialty Co., makers of small Hardware, who had just gotten well started, were among the victims of the recent fires. The concern, which is one of the fruits of the efforts of the board of trade, is a small but lively one, and is now making a fresh start with good prospects before it.

Miscellaneous.

Albany, N. Y.—The Fuller & Warren Co. of Troy, one of the largest stove concerns in the State, has decided to include warehouse and storage facilities to its present business. The location of the company's plant could not be surpassed, as it has direct access to the river and railroad lines.

Anderson, Ind.—The machinery of L. R. Longsworth's handle factory was put on the cars yesterday for shipment to Somerset, Ky. It is expected the plant will be in operation there in a few weeks.

Columbus, Ohio.—The Howe Scale Co. of 1886, of Rutland, Vt., capital stock, $250,600, has complied with the foreign corporation laws. Its Ohio office is at Cincinnati, and the company's State agent is T. B. Linnard.

Covington, Ky.—The Davis-Egan Co. of Cincinnati, one of the largest manufacturers of tools, waterworks supplies, etc. in America, are anxious to locate in Covington. They have all arrangements completed for the purchasing of the late Walton Architectural Works at Seventeenth and Holman Streets, and in less than sixty days they state they will have 150 men at work.

Hamilton, Ohio.—The Niles Tool Works have secured a large contract from Egypt, for machinery to be used in outfitting a railroad shop in that far-away country.

Moline, Ill.—The big Corliss engine which has furnished the principal part of the power in Deere & Co.'s plow works, collapsed on the morning of Nov. 27. The engine and a dynamo in the same room were wrecked, causing about $8000 damage. The engine-house and the adjoinable buildings were shaken as by an earthquake, and there were several narrow escapes from death.

New Castle, Del.—The Boulden Mallet Mfg. Co. will shortly be organized. The principal incorporators will be David Boulden, William Morrison, Lawrence O'Connor and Theodore Hanf. The new company will manufacture mallets out of best wood procurable.

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Will take the chill off a room in a few minutes.



2 feet 3 inches high.

No Smoke, No Odor, or Chimney.

The same this year as in previous years.

A perfect success then, and a perfect success now.

Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

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New York. Boston. Chicago. **Plume & Atwood Mfg. Co.,** FACTORIES. Waterbury and Thomaston, Conn.

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I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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FERTILIZER CHEMICALS and MATERIALS;

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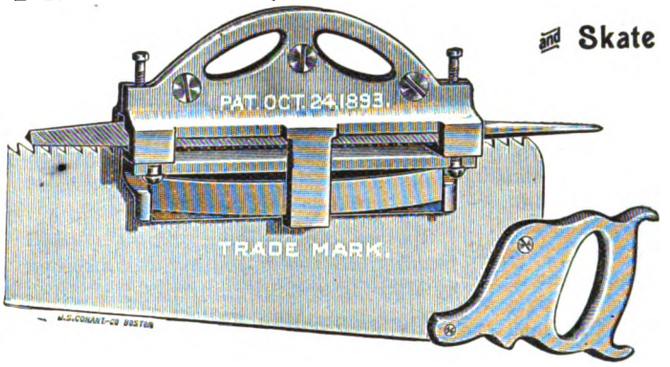
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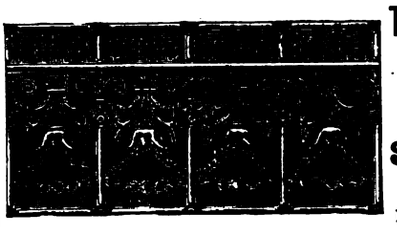
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Uses any common file.

Write for prices.

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AND ALL KINDS OF

Sheet Metal Goods for Buildings,

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Best construction, quality and workmanship guaranteed.

HARDWARE DEALERS

It will pay you to handle our Roofing Cement. Put up in fancy cans, 3, 5, 10, 25 and 100 lb. cans. Write

BROWN BROS.,

Made in all colors. Montgomery, N. Y.

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Energy Mfg. Co., Philadelphia, Pa. [Dumbwaiters]: We daily feel the benefit of our card in your columns.

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Bull Dog Lace Leather the best on earth. . .

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Akron, Ohio.—The Diamond Rubber Co. has been reorganized, with a capital stock of $300,000.

Camden, N. J.—The Lee Mfg. Co. has been incorporated by G. F. Fries and others, to manufacture bicycles. Capital stock, $75,000.

Chicago, Ill. — Fowler Cycle Co. has been incorporated by Frank T. Fowler, Frank A. Heilmer and Edwin Terwilliger, Jr., to manufacture bicycles. Capital stock, $50,000.

Chicopee Falls, Mass. — The Overman Wheel Co.'s works have resumed operations with 800 hands. The company went into the hands of a receiver a few days ago.

Denver, Col.—The Eclipse Bicycle Co. has established an agency, with A. L. Deane as manager.

Helena, Ark.—The Standard Wheel Co. will establish a branch at this place. It will employ about 250 persons.

Holyoke, Mass.— The Coburn Metallic Bed & Pneumatic Tube Co. has been incorporated, with a capital stock of $10,000.

Toledo, Ohio.—The Standard Tube & Forkside Co. has been incorporated by Charles M. Fairchild, Chauncey S. Bigelow, Chas. Kohler and A. C. Whittingham, to engage in the manufacture and selling of bicycle tubing and sundries. Capital stock, $25,000.

Washington, D. C.—Arthur D. Bennett has opened a salesroom and general bicycle repair shop at No. 725 North Capitol Street.

Washington, D. C.—Fowler Cycle Co. will establish a bicycle agency.

Washington, D. C.—H. W. Allen, of Chicago, is considering the advisability of opening a bicycle store and repair shop in this city.

Washington, D. C.—McLean & Espey is the name of an establishment, rumor says, will soon open on Pennsylvania Avenue.

Changes and Removals.

Brockton, Mass.—Cameron Wheel Co., bicycles, succeeded by E. S. Cameron, same style.

Charleston, S. C.—Baird Bros., bicycles, have purchased stock of Snyder & Fisher, and are selling out same at big reduction.

Charleston, S. C.—The Southern Cycle Supply Co. will increase its capital stock to $25,000, and intends to establish a bicycle factory.

Chicago, Ill.—The Fowler Cycle Mfg. Co.'s plant has been sold to Frank Fowler, who for some years was president of the company. The price paid was $20,000.

Daytona, Fla.—The Halifax Cycle Co., Griswold & Norris, proprietors, have recently purchased the bicycle livery of George Hawk, which they will annex to their own establishment on Beach Street.

Denver, Col.—Geo. Mayer Hardware Co. have removed to more commodious quarters at Nos. 1512 to 1520 Arapahoe Street. They are dealers in Hardware, bicycles, etc.

Detroit, Mich. — Hodgson, Howard & Marks, sporting goods, etc., Henry H. Hodgson, deceased.

Dyersburg, Tenn.—Dyersburg Hardware Co. have added a repairing shop to their business, and are fully equipped for the repairing of bicycles, guns, sporting goods, etc.

Elmira, N. Y.—W. R. Clark, bicycles, reported to have been succeeded by Ersly & Brown.

Florence, Col.—Godley & Co., bicycles, reported to have been succeeded by Emmons & Co.

Fort Wayne, Ind.—W. R. Little & Co., bicycles, etc., have dissolved partnership, and W. R. Little is now conducting the business under his own name.

Gainesville, Fla.—Neff & Graham, bicycle dealers, have dissolved copartnership; George Graham will in future run the store in this city, while G. H. Neff takes charge of the business at Tampa.

Greentown, Ind.—C. E. Kelly & Co., bicycles, etc., reported to have been succeeded by Ira Gibson.

Gypsum, Kan.— Baker & Hall, retail Hardware, sporting goods, etc., succeeded by Manning & Hall.

Hagerstown, Md.—The Crawford Bicycle Works, A. R. Vanmater, treasurer, has tendered his resignation to go into partnership with McAllister, the Philadelphia bicycle manufacturer. Edward W. Mealey has become treasurer of the Crawford Co.

Hartford, Conn.— The Lee Arms Co., manufacturers, E. G. Wescott, secretary and treasurer, deceased.

Houston, Tex.—Culmore & Reiler, bicycles, etc., reported to have dissolved partnership.

New York, N. Y.—Camp & Berrian, rubber goods, succeeded by George W. Berrian.

New York, N. Y. — Hall & Downing, manufacturers' agents bicycles, firm name changed to Hall Downing Stowe Co.

Reading, Pa.—Rhode Bros., dealers in bicycles, succeeded by Neff H. Rhodes. Mr. Rhodes will move to larger and more commodious quarters April 1st next.

Rice Lake, Wis.—Putrow & Boddington, bicycles, succeeded by J. B. Putrow.

Sandusky, Ohio.—Gilcher & Donahue, bicycles, reported to have dissolved partnership.

Savannah, Ga.—Holland & O'Byrne, bicycles, reported to have been succeeded by Dan H. Holland.

Somerville, Mass.—Churchill, Kelsey & Co., cycles, succeeded by Kelsey & Chase.

St. Thomas, Ont.—Brownell & Kennedy, manufacturers of bicycles, etc., reported to have dissolved.

Syracuse, N. Y.—Mrs. E. D. Legg, bicycles, reported to have sold out.

Tacoma, Wash.—Ed. Belch, bicycles, reported to have been succeeded by J. T. Eshelman.

Trenton, N. J.—The Phillips Cycle Co., bicycles, reported to have dissolved partnership.

Washington, D. C.—Burr & Jones, bicycles, No. 519 Ninth Street, N.W., have dissolved partnership, Mr. Burr retiring. Harry A. Fellows has purchased the interest formerly held by Mr. Burr, and the firm is to be known as Jones & Fellows. Business will continue at the old stand, with Mr. Jones as manager, Mr. Fellows being a silent partner.

Washington, D. C.—Gaither & Cissel have added bicycle sundries, Eighth and H Streets, N.W.

Washington, D. C.—The Arlington Cycle Co., formerly of H and Ninth Streets, has removed to a new location on East Capitol Street.

Washington, D.C.—The Cleveland Wheel Co. have moved into their new headquarters at Fourteenth Street and New York Avenue.

Wilkesbarre, Pa.—W. H. Bowman & Co., bicycles, succeeded by W. C. Bowman.

Recent Embarrassments.

Chicago, Ill.—Grant Co., manufacturers of bicycles, mortgagee reported to be in possession.

Chicago, Ill.—The Fowler Cycle Mfg. Co.'s insolvent plant, which inventoried $73,000, and the book accounts, amounting to $73,000, have been sold to Frank T. Fowler, who for some years was president of the company, for $25,000.

Haverhill, Mass. — Herbert R. Sawyer, bicycles, reported to have made an assignment.

Montgomery, Ala. — The Montgomery Arms Co., Dexter Avenue, has made an assignment to Carew Powell.

Newport, R. I.—Wm. B. Henderson, bicycles, attached and closed out.

Springfield, Mass.—Warwick Cycle Mfg. Co., reported to have been attached for $1000.

Wallingford, Conn.—The Hall Mfg. Co., bicycle sundries, reported to have appointed temporary receiver.

Recent Fires.

Chicago, Ill.—Wilson-Davy Co., bicycles, destroyed by water at a loss of $1000; fully insured.

Toledo, Ohio.—The Maumee Cycle Co., slightly damaged by fire.

Washington, D. C.—Drew & Goodman, bicycles, Eighth Street between D and E Streets, S.E., damaged by fire at a loss of about $1500, upon which there was an insurance of only $400.

Washington, D. C.—The National Cycle Co., repair shop, G Street near Ninth, slightly damaged by fire at a loss of $100. The inconvenience attending has now been overcome, and work has been resumed.

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One Best THE Sterling.

Bells of all Description.
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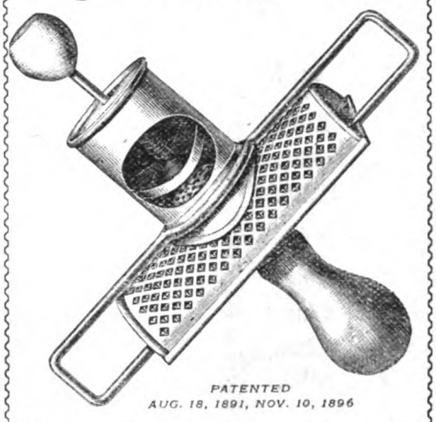
N. N. HILL BRASS CO.,
East Hampton, Conn.

DOUBLE STROKE A.1.



DUNBAR BROS.
BRISTOL, CONN.

THE NEW 1896
Edgar Nutmeg Grater.



PATENTED
AUG. 18, 1891, NOV. 10, 1896

The ONLY good Nutmeg Grater ever made.

Ask your jobber for it, or send to us for sample.

EDGAR MFG. CO.,
READING, MASS.





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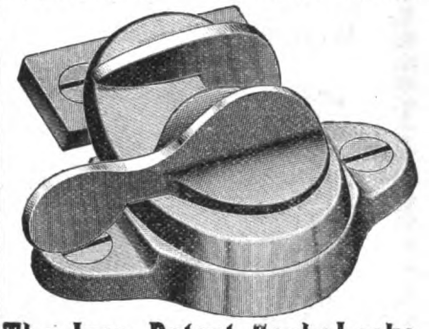
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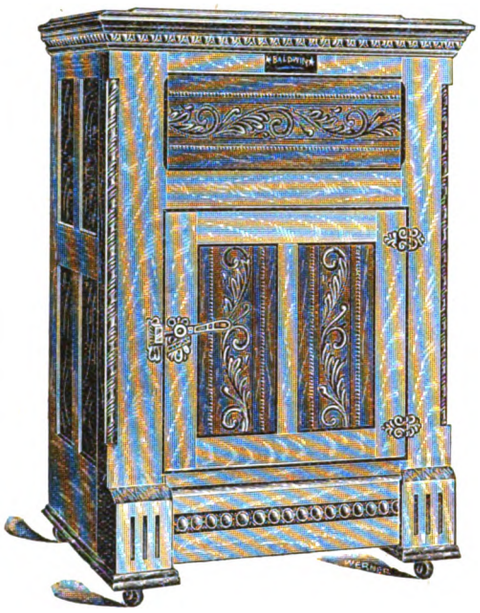


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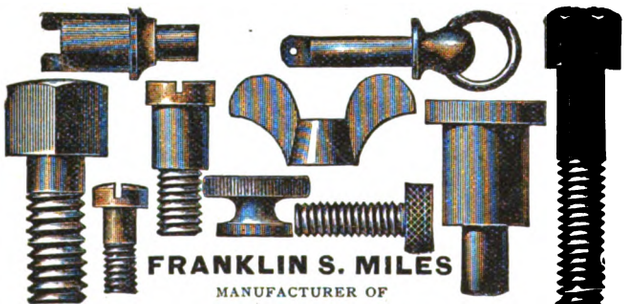
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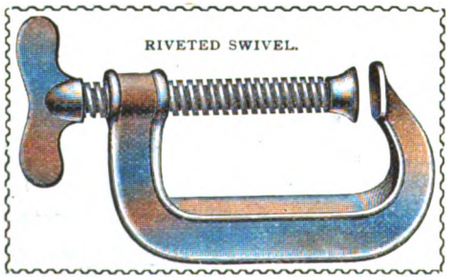
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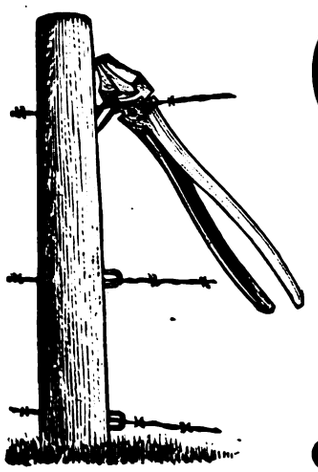
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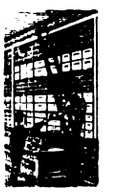
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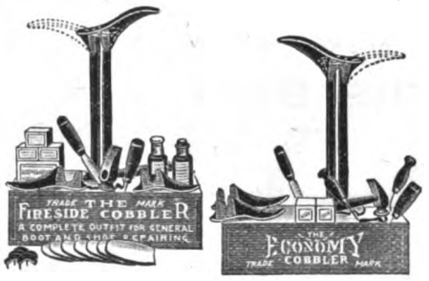
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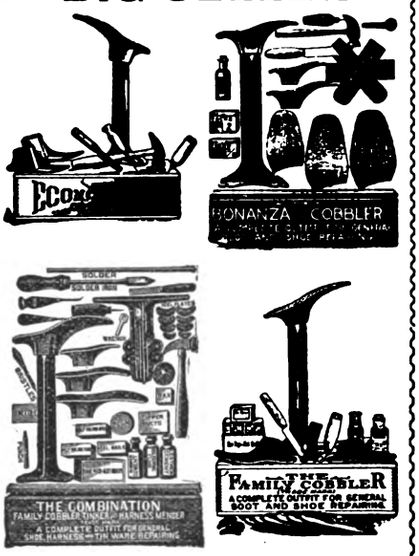
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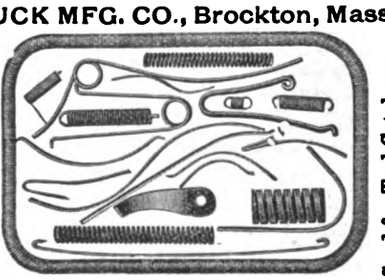
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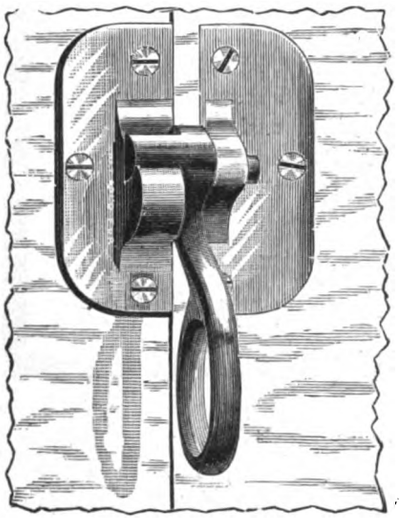
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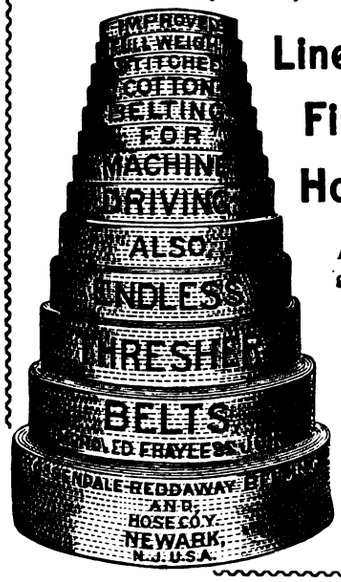
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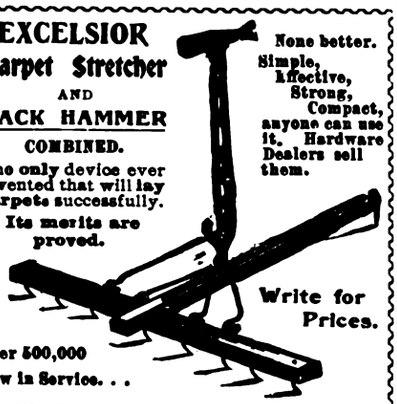
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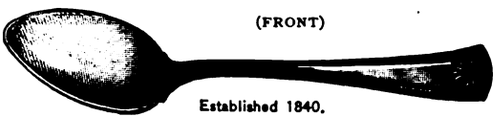
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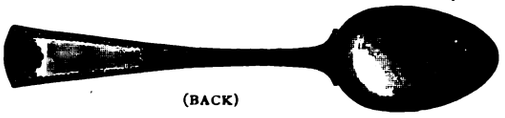
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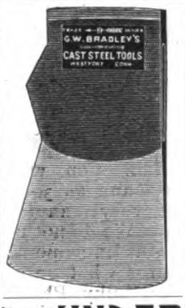
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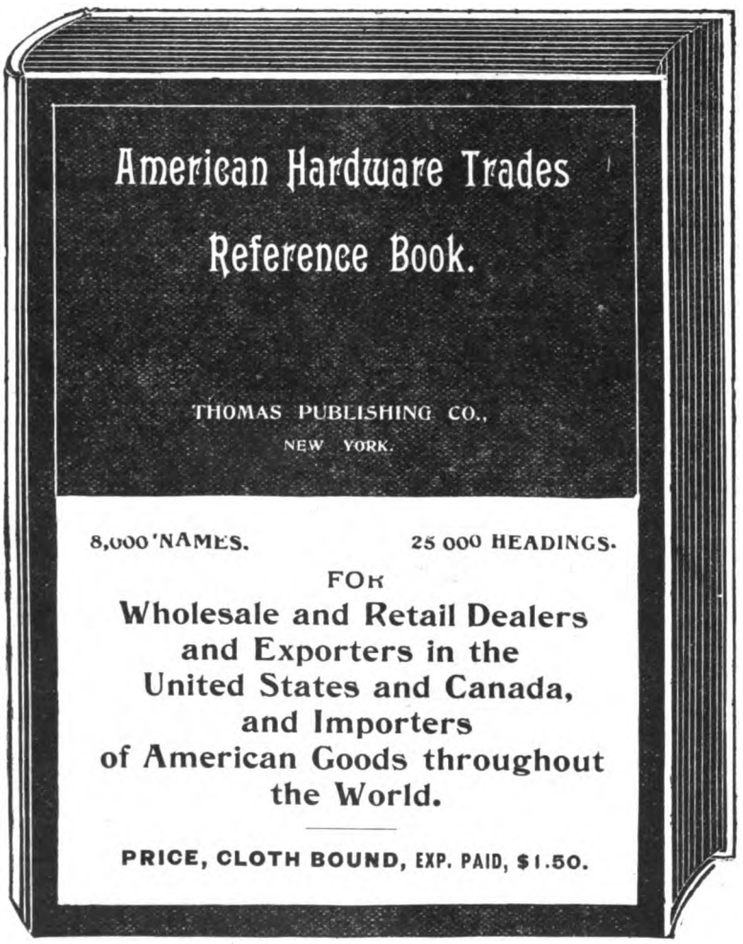
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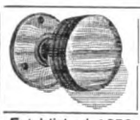
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James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

GEO. W. NOCK, Manufacturer of
KEYS AND Locksmiths' Supplies,
BICYCLE Supplies. . .
146 No. 4th St., PHILADELPHIA.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

TRAVELING salesman for first-class line of American pocket cutlery, on commission, in Missouri and Kansas, or Nebraska and Iowa. Address C C., care HARDWARE, No. 143 Chambers Street, New York.

BY March 1st wanted a capable and industrious young man to run a Hardware store in western Pennsylvania. Give references and experience. Address care H. S. WEAVER, No. 438 Church Street, Indiana, Pa.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

WANTED by a practical mechanic with eighteen years' experience in the manufacturing of wood-working machinery and iron tools. Has had charge of machine shop for ten years and buying of supplies. A position as superintendent, assistant manager or traveling salesman. A1 references. Address H. A. CANT, Lancaster, Erie County, N.Y.

MAN, thirty-one years old, wants to change his position; nine years' experience in retail Hardware as bookkeeper, buyer and salesman. Experience on road. A1 city reference given. Moderate salary. Address LOCK, Box 34, Jeannette, Pa.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York, in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk or traveling salesman, by a young man. Twelve years' experience on the road, and in retail Hardware, cutlery and guns. Best references. Address SHIRES, Lock Box 308, Bedford, Pa.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and general Hardware finishing. Address J. G. K., No. 535 Park Street, N.Y.

SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

EXPERIENCED traveling salesman, familiar with the jobbing trade, wants to better his future by connecting with a house where he can grow. Highest references from present employers. Salary not so much an object as an opportunity to show right house what he can do. Address "LANTERN," care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

SEVEN years with one of the largest and best knwon wholesale Hardware house on Chambers Street, N.Y. At present have one-half interest in retail Hardware and tool business. Will dispose of this January 1st, and will be open to an engagement as buyer, manager or any position from stock to bookkeeping. Make an offer if you are looking for an all round man. Age 27, references. TAYLOR, care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

DIE MAKER, A No. 1 practical die and tool maker, well up in all latest improved dies and tools for novelty and general Hardware, dies for blanking, drawing, stamping, forging, etc. for all sheet metals, as brass, iron, steel and aluminum. Well up in modern shop methods to increase production, also automatic dies, feeds, stops, etc. Can design and develop ideas, ten years' experience in best shops in Massachusetts and Connecticut. Age 30. Can accept January 1st, '98. Best references as to ability and character Address, DIE MAKER, care HARDWARE, No. 143 Chambers Street, New York.

EXPANSION BOLTS

For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

WANTED, by a practical die and tool maker, a position as foreman or superintendent, familiar with typewriter, sewing machine, clock and bicycle work; has had experience at the bench, drawing board, and superintendent. Can handle men with good advantage and good results. Age 30. Can accept January 1st, '98. Best references. Address CONN, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A HARDWARE salesman desires a position in a first-class wholesale or retail Hardware store. Six years' experience. Good references. Will go anywhere. Address A. J. Y., BOX 208, Yarmouth, Me.

A FIRST class stove pattern maker wishes position in pattern shop-fast worker neat and artistic. Address GOOD MAN, care Hardware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk, salesman or stockkeeper, or would offer a special line on commission; has eighteen years' experience in the wholesale and retail Hardware, cutlery and guns; was ten years with last employer. Age 35 years. Best references. Address "JOHN" care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, North Carolina.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

WANTED by a practical mechanic, with a good education and 17 years experience in working iron and steel, managing help, buying of mil supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., careHARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

CUTLERY manufacturing concern or wholesale house wishing to manufacture their own razors are invited to correspond with a practical razor maker, having many years' experience as foreman, best of reference. Address RAZOR MAKER, care HARDWARE, No. 143 Chambers Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders' Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport, Conn.

POSITION by a young man, Christian, experience in Hardware, superintending help and office. A No. 1 references. Address B. No. 6 E. Fulton Street, Johnstown, N. Y.

WANTED position by a practical metal pattern maker in all its branches, good all around mechanic on lathe and vise, fair engraver, steady and sober, can give reference; for further particulars, address G. G., care HARDWARE, No. 143 Chambers Street, New York.

A Hardware traveller, wants to better his future by connecting with a house where he can grow. Salary not so much an object as opportunity to show to the right house what he can do; knows Canadian trade thoroughly, would travel there or elsewhere. If you want a man who wants to grow, write to "TRAVELLER" care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by young man in office or on road, with chance for advancement. Hardware or paints preferred. A1 reference as to character, honesty, etc. Address WM. H. ENGELBRECHT, Prince Bay, Richmond County, New York.

WANTED a position by married man of experience, as bookkeeper or entry clerk. Have had four years' experience in a large retail store. A1 references. Address J. G. R. Box 533, Lake Mills, Ia.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

TRAVELING salesman throughout New England and Middle States, with permanent address on Broadway, New York, would like novelties and lines of S. M. belts, oil or tailor's shears. Exclusive agency in above territory preferred. Address JOHN F. DOWD, No. 239 Broadway, New York City.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L, care Forest City House, Cleveland, Ohio.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

Side Line Offered.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

A WELL-KNOWN firm, representing several factories as New York office, wishes to add at least three good lines either on commission or salary. Address MANUFACTURERS' AGENT, care HARDWARE, No. 143 Chambers Street, New York.

For Sale.

HARDWARE store twenty miles from New York; doing good business. Rare chance for a live man. Owner will give satisfactory reasons for disposing of same. Price, $3500. Address H. H. G., P.O. Box 2383, New York City.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

FOR sale, cheap, a Hardware and electrical supply store, situated in the busiest part of Fulton Street, Brooklyn, New York. Address Box 99, care HARDWARE, No. 143 Chambers Street, New York.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

MR. MANUFACTURER: Are you properly represented in Boston and New England? I sell to the Hardware, woodenware, kitchen-furnishing and department store trade. Can add a good line to my present ones, and give it proper attention. I have an established office, and an established trade. Address MANUFACTURERS' AGENT, Box 1561, Boston, Mass.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

Office Room to Let.

OFFICE and desk room to let on street floor; most desirable location on Chambers Street, including steam heat and porter's services. R. CHRISTENSEN, No. 88 Chambers Street, New York.

Wanted to Purchase.

WANTED to purchase a retail Hardware, house-furnishing, lumber, building material or coal business in a live, growing town, having a good location, doing a good business. State full particulars and price. JOHN R. SWARTZ, Hughesville, Pa.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

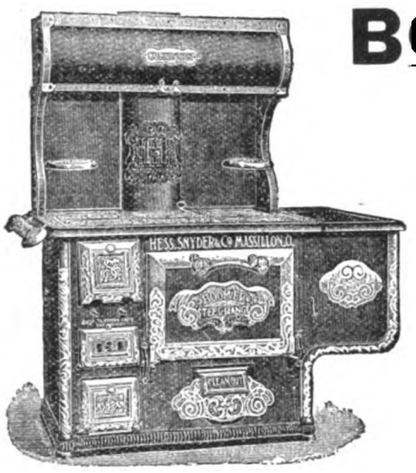
Mention "Hardware."



"ERIE" ALUMINUM

For Christmas—"ERIE" ALUMINUM, The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.

ESTABLISHED 1845
DUNBAR BROTHERS
MANUFACTURERS OF
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM
SHEET STEEL & STEEL & BRASS WIRE
BRISTOL, CONN. P.O. BOX 416



BOOMER STEEL RANGE,
With High Closet.

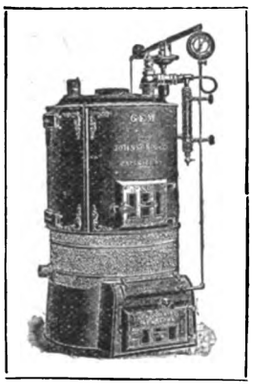
Rolling Front. Six Holes. Stationary or Portable Reservoir.

Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the
CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street, MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

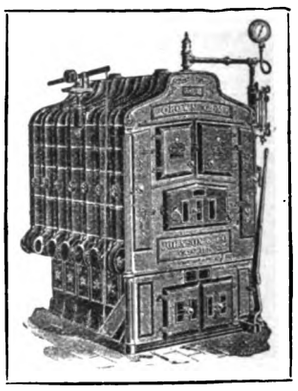
FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

.... MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.





Benefits Greater Than Ever Before.

Nicholson File Co., Providence, R. I., [*Files*]: We are pleased to state that the results thus far obtained from our advertisement in the columns of *Hardware* fully justify our having resumed our contract with you. We feel that the benefits which we are securing from your paper are **greater than ever before.**

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters, Ship Carpenters, Railroad. 40&12½%

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge 47 @ 50c
U. M. C. Co. and Hicks ground edge 47 @ 50c
Musket, Waterproof, 1-10's 45 @ 50c
G. D 28 @ 30c

CARTRIDGES—
Rim Fire Cartridges 50&5&2%
Rim Fire Military 15&2%
Cent. Fire, Pistol and Rifle 35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal. $1.75 2%
Blank Cartridges, 32 cal. $3.50 2%
Primed Shells and Bul'ts 15&5&2%
B. B. Caps, Round Ball $1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. 2%
B. L. Caps (for Sturtevant Shells) $ 1.00 2%
All other Primers $1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&5%
First quality, 14, 16 and 20 gauge $7.50 20&10&5%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&5%
Brass Shot Shells, 1st quality 60&5%
Brass Shot Shells, Club, Rival and Climax 65&5%

SHELLS, LOADED—
With Black Powder 40&10&10&5%
With Nitro Powd'r 40&10&10&10&5%

GUN WADS—₩ 1000—
B.E., 11 up .60c. B.E., 9&10 .70c
B.E., 8 .80c. B.E., 7 .90c.
P.E., 11 up 1.00. P.E., 9&10 .$1.25
P.E., 8 1.50. P.E., 7 1.50
25%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag $1.22
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag $ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag $1.47
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag $ .35
Buck Shot, 25-lb bags, ₩ bag $1.47
Buck Shot, 5-lb bags, ₩ bag $ .35
Chilled Shot, 25-lb bags, ₩ bag $1.50
Chilled Shot, 5-lb bags ₩ bag $ .35
Dust Shot, 25-lb bags, ₩ bag $2.00
Dust Shot, 5-lb bags, ₩ bag $ .50

POWDER—
Laflin & Rand Powder Co.:
Orange Rifle "Extra," F, FF, FFF, in kegs 25 lb $4.00
½ kegs 12½ lb 2.25
¼ kegs 6¼ lb 1.25
1 lb canisters .15
½ lb canisters .15
¼ lb canisters .12
Orange, Special, Nos. 1 and 2, in kegs, 25 lb 5.00
½ kegs, 12½ lb 2.75
¼ kegs, 6¼ lb 1.50
Orange Ducking, Nos. 1 to 5, in ¼ kegs, 6¼ lb 2.25
1 lb canisters .45
Orange Lightning, Nos. 1 to 7, in 1 lb canisters .75
[For 1000 lb lots 10% discount.]
Laflin & Rand W.-A. Smokeless:
Sing e Canisters $1.00
10-Can Drums $9.00
Discounts on application.
Blasting and Mining, "A," in kegs, 25 lb 2.25
Blasting and Mining, "B," in kegs, 25 lb 1.50

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each $ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb $3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼ 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb 2.15
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb 2.15
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb 1.40
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder $22.00
Half Kegs, equal in bulk to 12½ lb Black Powder 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder 5.75
Canisters, equal in bulk to 1 lb Black Powder 1.00
Discounts on application.

HARD GRAIN SMOKELESS—

TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000 $5.50
Expert Traps, each $5.50
Extension Traps, each $4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success ₩ doz. $3.80
Galien Safety ₩ doz. $3.75
Hartman's Pivot ₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye ₩ doz. $3.25
Western ₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire ₩ doz. pairs .75
Burton's, No. 2 ₩ doz. pairs .75
Burton's, with bolt holder, No. 1 ₩ doz. pairs $1.00

Anvils—

American "Horse-Shoe" 9½@9¾c
Armitage's Mouse Hole 8¾@9¼c
Eagle Anvils, ₩ lb 9c 15@15&5%
Hay-Budden, Wrought 8¼@8¾c
Peter Wright's 9¾@10¼c
Samson 8¼@9c
Trenton 8½@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise 40%
Holt's 40@40&10%
Millers Falls (with drill) $18.00 20%

Augers and Bits—

Boring Machine 75@75&10%
Cincinnati Tool Co.:
Bell hangers' bit 40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug 25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114 50&5%
Common Auger Bits 75&5@75&10%
Cook's Circular Lip 60%
Cook's N. H. Copper Co. 60%
Forstner Pat. Bits 25%
Ives' Circular Lip 65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30 60%
Nobles Double Spur, No. 32 70&10%
No. 10 Extension Lip 40%
No. 14 Extension Lip pattern car bit 40%
Pat. Car Bits, No. 10 40%
Pat. Car Bits No. 30 60%
Ring Augers 70&10%
Pugh's Black 20%
Snell's Bits 60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $14.00, 20%
Cincinnati Adjustable 25&10%
Cincinnati Standard 25&10%
Douglass' 33⅓@33⅓&10%
Ives 33⅓@33⅓&10%
Millers Falls, Goodell 15&7½&10%
Universal, each $4.50 20%

EXPANSIVE BITS—
C. E. Jennings & Co. 33⅓%
Cincinnati 35&10&10%
Clark's small, $18.00 45%
Clarks' Large, $26.00 45%
Ives' Model, ₩ doz. $60 50@50&10%
Steer's No. 1, $26; 2, $18 40%
Stearns' No. 2, $48 20%
Swan's 40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.25 40&10%
Double Cut, Shepardson's 45&10@50&10%
Double Cut, Common, ₩ gro. $2.75@$3.25
Double Cut, Douglass' 40&10@50%
Double Cut, Ladds' 70%
C. E. Jenning & Co.:
Double Cut 70%
German 50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood 40@40&10%
Cleveland Wood Bits for Brace 50&5%
Detroit 60@70%
K. & F. 60&10&10&5%
Syracuse, for wood 40%
W. & B. Diamond 60&10@60&10&10%

TWIST DRILLS—
Cleveland 60&10@70%
Detroit 60&10&5@70&5%
K. & F. Straight Shank 60&10&10%
Morse Twist Drills 60&10@70%
New Process 60&10@70%
Standard 60&10@70%
Syracuse 60&10@70%
W. & B Diamond 60&5@60&10%
W. & B. Universal Self-Oiling 10%

SHIP AUGERS AND BITS—
L'Hommedieu's 15&10%
Snell's 30&10@40%
Watrous' 40%

Awls—

Dunlap's Brad 25%
Dunlap's Handled 25%
Handled Brad, ₩ gr. $3.00@$3.25
H'ld Scratch ₩ gr. $3.75@$4.00
Pat. Peg ₩ gr. 85@85c
Sewing, Com. ₩ gro. 85c@$1.00
Should. Peg ₩ gr. $1.35@$1.45
Shouldered Brad, ₩ gr. $1.50@$1.65
Socket Scratch ₩ doz. $1.00@$1.10
Stanley Rule & Level:
Handled Brad 40&10%
Patent Pegging 50&10%

Awl and Tool Seats—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10. 60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50 70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $13; 3, $12; 4, $9; 5, $7. 50%
Ice Awls 55%
Millers Falls Adj. Tool Holders.
Nos. 1, $12; 2, $12; 4, $12; 5, $13.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $8.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands $5.00@5.25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade ... per doz., $12.00
Empire ... per doz., $9.00
Firemans' ... per doz., $25.00

HATCHETS—
Collins 10%
Findlay Axe & Tool Co. 50@50&10%
Hunt's, Underhill's or Blood's 50@50&10%
Peck's:
Champion Blade 45%
Empire Brand 50&10%
Fayette R. Plumb:
Broad, New List 40&12½%
Lathing 50%
Shingling 50%
Warehouse 40&12½%
Vulcan Tool Co 60%

Balances—

Chat llon's:
No. 2000 20 30
₩ doz. 75c 85c $1.65 net
Circular Balances 60%
Straight Balances 50%
Circular Spring Balances 50&10@60%
Common 24 lb ₩ doz. 80c net.
Ice 50&10%
Straight Spring balances 50&10@60%

Barrel Drainers—

National 80%

Beef Shavers—

Enterprise:
Japanned, each, $6.50 20%
Tinned, each, $7.50 20%

Bells—

HAND—
Extra Heavy Brass 65&10%
Light Brass 70&10%
Globe (Cone's Patent) 40%
Silver Chime 40%
White Metal 65&10%

DOOR—
Crank, Cone's 10%
Gong, Abbe's 40@40&10%
Gong, Barton's 40&10@50%
Gong, Yankee 55&10%
Lever, R. & E. Mfg. Co.'s 60@60&10%
Multi-Stroke 50%
New Departure 45@50%

COW—
Common Wrought 60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List 75%
Texas Star 50&10%
Western, Sargent's list 75%

Bellows—

Blacksmith's 70@70&10%
Hand 50&5@50&10&5%
Moulders 50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston" 50&10&5%
"Imperial," seamless, stitched 40&5%
Cleveland Rubber Co.:
Buckeye 60&10%
Shield High Grade 50&10%
War 2 XL 40%
Common Standard 75&10@75&10&5%
Extra 60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para 40&10%
Reliable 50&10%
Staple 60&10%
Standard 70&10@75%

Bench Stops—

Cincinnati 25&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00 40&20%
Seymour Smith & Sons, ₩ doz. $5, 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ₩ doz. 80%
Millers Falls 15&10%

Bicycle Tires—

W. & B ₩ pair, $6.50
W. & P ₩ pair $7.00

Bit Holders—

Angular 40&5%
Extension:
Barber's, ₩ doz. $15.00 45%
Ives' ₩ doz. $20.60.60&10@60&10&5%

Blind Adjusters—

Domestic ₩ doz. $2..33⅓@33⅓&10%
Excelsior, ₩ doz. $10.00 50&10&2%
N rth's 10%
Zimmerman's 50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₩ gro. sets $5.50
Gorhans Improved Star Tenon ₩ gro. $1.00 25%
Merriman's Brass Lever ₩ gr. $15.00
Merriman's Iron Lever ₩ gr. $9.00
Millers Falls ₩ set $1.00 15&10%

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Security Gravity ₩ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ₩ gr.....$9 00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....30%
Perfect Safety.....30%
Stowell Novelty Block.....50&10%
Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—
Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@30%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&5@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—
Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..75&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—
American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—
Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—
Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....30%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.35; 2, $1.65; 3, $2.50 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's. Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114.....60&10%
No. 208½@216½.....60%
Lancaster Mach. & Knife Works.45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80&10%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@25%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & L. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—
Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.4.0@40&10%

CAST IRON—
Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow,....60@60&10%

WROUGHT STEEL—
List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow...50&10@50&10&5%
Fast Joint, Narrow.....
Fast Joint, Light Narrow.....
Fast Joint, Broad.....
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..
} 75%

Can Openers—

American.....₩ gross $1.75@$1.90
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $12.00.....25%
Dunlap's Sardine Scissors, ₩ doz. $5.00.....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme, ₩ gr. $8.00; ₩ doz.75c
No. 5, Iron Handle, ₩ gr....$3.00@$3.25
Sardine Scissors...₩ doz. $3.00@3.25
Sardine Scissors, Forged Steel, ₩ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2 50.....70&10%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz.75@80c
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal....
Grand.....
Grand Rapids.
Hall.....
Prize.....
Premier.....
Superior.....
} Cyco-Bearing ₩ doz.
$24.00
$26.00
$32.00
$60.00
$24.00
$24.00
$24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $31.00
Furniture Protector, Japan.....₩ doz. $32.00
Furniture Protector, Nickel.....₩ doz. $24.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—
Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $6.00
Little Queen.....₩ doz. $4.00
Misses.....₩ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0&5 0%
Giant Truck Casters.....25%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phoenix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—
American.....60&10%
Covert's Horse and Cattle:
Jute.....45%
Manilla.....45%
Sisal.....45%
Triumph.....45%

Chain—

American Coil, Ass'n cask prices.

3-16	1/4	5-16	3/8	7-16	1/2	5/8	3/4
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Bridgeport Chain Co.:
Brown, Coil.....60&10&5%
Brown, Halter.....60&10&5%
Monarch, Sash.....60%
Triumph, Coil.....60&5%
Triumph, Halter.....60&5%
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Cherry Stoners—

Enterprise.....25%

Chisels—

SOCKET FRAMING AND FIRMER—
Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10 &5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co.....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—
Rox.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to $
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $3.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati.....25&10%
Carriage Makers', Sargent's..50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clippers—

HAIR—
Chicago Flexible Shaft Co.'s:
Handy.....Each $1.10..50%
Monitor.....Each $1.85..50%
Stewart Pat.....Each $2.00..50%

HORSE—
Chicago Flexible Shaft Co.'s:
Chicago Belt Clipping Machine, Each $15.00..15%
New '98, Chicago..Each $13.75..15%

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
Logan & Str bridge Co...net prices
National Specialty Mfg. Co.....30%
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....30%
Barton's.....30@30&5%
Beatty's.....33⅓%
L. & L. J. White.....30@30&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.....30%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....25@25&10%

Counter Sinks—

Adjustable.....30%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....30%
Dixon's
Eclipse.....₩ gro. $2.75
Emerald.....₩ gro. 5.00
Oriole.....₩ gro. 5.00
Rainbow.....₩ gro. 2.81
Solid.....₩ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....35&10%
Perfect.....35&10%
Rubber, ₩ doz. $7.50.....30@30&10%
Southington Cutlery Co.'s List, Nov. '96.....35&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list. 40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....30%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$35.00

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Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Rubber, complete, ₩ doz. $5.50, 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 39 in, ₩ doz $1.20@1.25
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, P. S. & W., Witherby.....75& 10& 5%
Watrous.....30@30&10%
L. & I. J. White.....2&5@25%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths' .....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....60&10%
Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓%
Ratchet, Ingersoll's.....25%
Ratchet, Merrill's.....20@20&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....20&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00: Adjustable No. 10, $12.00.....33⅓%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Drug Mills—

National Specialty M'g. Co.....30%

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$3.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry .....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..80c. each. less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5(c. ea., less 5' %
Gravity Batteries, $1.00 ea.. less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone 6'c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14 Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$3.00 ea., less 50%
Spark Coils, 10 pt $3.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 80c. ₩ lb. less 50%
Tube, Speaking, $31.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $3.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF F F.
Kegs, ₩ lb.	4½c	5c	3c
½ kegs, ₩ lb.	4¾c	5¼c	3¼c
¼ kegs, ₩ lb.	5c	5½c	3½c
10 lb cans, 10 in case....	6c	6½c	5½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....35%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's "Peerless," Tin Key.....40%
John Sommer's "Boss," Tin Key.50%
John Sommer's "Victor," Metal Key.....50&10%
John Sommer's "Duplex," Metal Key.....60%
John Sommer's "Buckeye," Metal Key.....40%
John Sommer's "Rochester," Metal Key.....50%
John Sommer's "Rival," Metal Key.....50%
John Sommer's "Crescent," Metal Key.....50&10%
John Sommer's "Diamond," Lock 40%
John Sommer's "Eclipse," Lock. 40&10%
John Sommer's "Union," Lock.50%
John Sommer's "I. X. L.," Cork Lined.....50%
John Sommer's "Reliable," Cork Lined.....60&10%
John Sommer's "Common," Cork Lined.....70%
John Sommer's "O. K.," Cork Lined.....60%
John Sommer's "Chicago," Cork Lined.....60%
John Sommer's "Perfection," Cedar.....40%
John Sommer's "No Brand." Cedar.....50&10%
Star.....60@60&5%

SELF MEASURING—

Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....33⅓%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7¼ inches, (anti-tip-over).....	5.50	6.50	7.00
Dairy Pails, 14 qt.....	3.30	3.80	4.30
Fire Pails, 14 qt., stenciled "fire.....	3.40		
Fruit Bowls.....	1.20	1.70	2.00
Keelers, 11½ inch.....	2.30	2.80	3.10
Milk Pans.....	1.50	2.00	2.30
Mats, 8½ inch (for table use)	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.,.....	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover).....	6.50		
Pitchers, 10½ in. high..	4.00	4.70	5.30
Peck Measures.....	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt....	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers).....	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....$3.00	$3.50	$4.00	
Waste Paper Jars.....	3.00	4.00	4.50

Wash Basins (10½ inch)	1.10	1.50	1.70
" (12 inch)..	1.20	1.70	2.00
" (13½ inch)	1.70	2.30	2.70
Wash Basins, 15 in.. (or Wash Bowls,.....	2.30	2.90	3.40
Wash Bowls 14 in. deep	2.50	3.30	4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Derby.....75&10%
Economy.....75&10%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files...60&10&10%
Royal.....75%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works: Files.....70&10% Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters: A 1, $4.00; No. 2, $2.50; No. 3, $1.50; No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (50c base).....10%

Fish Scalers—

Covert's Saddlery Works: Great American.....60&20%
Fitch's.....35&10%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.: Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&30&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's: Confectioner's Machine.....net Double Action Standard.....net Good Luck.....net Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fruit, Wine and Jelly Presses.

Enterprise.....25%

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No.....	0	1	2	3	4
₩ doz..	$3.00	$3.75	$4.25	$4.75	$5.25
No.....	5	6	7	8	
₩ doz.....	$6.00	$7.00	$8.00	$9.00	

Gas Lighting Burners—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓%
Clapboard.....30.....
Marking, Mortise, &c..60&10@60&10&10%
Stanley's.....60&10%
Stanley's Chisel.....35%
Starrett's Surface, Center and Scratch.....35&10%
Copeland Champion Bit ₩ doz $3.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets: Assorted 1, 2 and 3.....₩ gr. $1.50 Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....50%

Spike Gimlets: Assorted 1, 2 and 3.....₩ gr. $2.00 Assorted 2 and 3.....₩ gr. $2.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....45@50%

Graters—

Champion Nutmeg.....₩ doz. $9 00
Edgar's Nutmeg..₩ gro. $10.50..10%
Enterprise.....35%
Rotary Nutmeg.....₩ gro. $9.00

Grindstone Fixtures—

Howard Iron Co.....30%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works: '96 List.....60&20%
Upson & Wooding.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co. Handled Claw.....40&10% Machinists'.....60&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75 .....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb: Artisan's Choice, A. E. Nail.. 40&7½% Engineers & B. S. Hand....50&15% Y. & P., A. E. Nail.....40&12½% Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c; 3 to 5 lb.....₩ lb 35c; Over 5 lb.....₩ lb 30c } 75@80%
Wilkinson's Smiths....2½c@10c ₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@ 50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....	$ .90	1.00	1.08	1.35	1.50

50&10@60%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....50&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.65
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60 &10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 3½.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₩ gr. $1.75@3.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00

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Firmer Chisel, Hickory ass'd ₩ gr. $2.00@3.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....60&5%
Hoe, Rake and Fork 60&10@50&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

BOSS-CUT SAW HANDLES—

Atkins.....40%
Boynton' Loop Saw Handles, 50c.60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—

Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England.70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction.50&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00.....70&10%
Cronk's Steel cov'd Loose Axle.....60&20%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6(&5%
New Model.....4 &10%
Parlor, Standard.....40&10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $18.00, ₩ dozen pairs.....60&10%
Reed's Steel Arm.....50%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c.....40%
Richards' Single Track, Steel.50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd.60&10@60&10&10%
Stowell Barn Door:
Badger.....(0&10%
Climax.....55&5%
Interstate.....60&15%
Magic.....5(&10%
Matchless Covered.....60&10%
Wild West.....5(&5%
Zenith.....5(&5%
Baggage Car Door.....35&5%
Elevator.....40%
Railroad.....5(&5%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00.6(&10&2½&5
Warner's Pat.....20&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....35&10@35&10&5%

Hatchets—

See Axes.

Hay Racks—

Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—

Auburn Hay, Com. and Spear Point.....50%
Auburn Straw.....40%
Lightning, from jobbers.$6.00@$6.85
Wadsworth's.....40&5@40&5&7½%

Hedge Shears—

Wm. Wilkinson & Sons.....50%

Hinges—

WROUGHT IRON HINGES—

Corrugated Strap and T..75@75&5%
Rolled Blind Hinges Nos. 33 and 34 50&10@50&10&5%
Rolled Plate..... } 70&10@70&10&5%
Rolled Raised.... }
Plate Hinges "Providence" 6 to 12 in. ₩ D, 5c. 14 to 36 in. ₩ D, 4c.
Screw Hook and Strap. { 6 to 12 in., ₩ D, 2½c; 14 to 20 in., ₩ D, 2½c; 22 to 36 in., ₩ D, 2 c
Strap and T.....75@75&5%

SPRING HINGES—

Acme.....30@10%
American.....30%
Bommer's.....40%
Bardsley's Patent Checking.....15%
Chicago.....30%
Crown.....30%
Champion.....30%
Devore's No. 1.....₩ gr. $13.00
Geer's Spring and Blank Butts...40%
Gem.....30&10%
Zell's American.....30%
Matchless No. 10.....70%
New Idea, No. 1, ₩ gro.....$7.50
New Idea, No. 2, ₩ gro.....$18.00
Oxford.....30&10%
Rex.....₩ gr. $13.00
Royal Japanned.....66⅔%
Rubber.....66⅔%
Sargent's List 1894:
Bronze Metal.....75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double.60&10%
Mortise.....55%
Model.....70@70&10&10%
Tuscan Surface, Single.....70%
Tuscan Surface, Double.....70%
Vigilant.....50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894.....20%
Union Mfg. Co.....35%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—

Automatic.....₩ doz $12.50, 50%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3.....70&10&5%
Long's Self Closing.....50%
N. E...₩ doz $7.50.....60@60&10%
N. E. Reversible.....₩ doz $5.60 50@50&10%
N. Y. State..₩ doz $4.90..60@60&10%
Reed's Latch and Hinges...₩ doz $12.00, 50%
Seymour's.....45&10%
Shepard's Nos. 1, 2, 3.60&10@60&10 &5%
Western, ₩ doz $4.20.....60@60&10%

BLIND HINGES—

Clark's:
Lull & Porter, Nos. 0, 1, 1¼, 2, 2¼, 3.....60&10%
Mortise Gravity.....50%
Nos. 1, 3, 5.....60&10%
Nos. 40 and 50.....60%
Huffer.....65%
Parker.....75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13, 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter.....(0&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5.....80& .0&5%
Champion Gravity Lockin~ No. 75.....50&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5, (0&10%
Tip Pattern, Nos. 1, 3 and 5, (0 v 10&5%
Double Locking, Nos. 20 and 25.75%
Empire, Nos. 10 and 101.....80%
Niagara Gravity Locking, Nos 1, 3 and 5.....80 v 10%
Noiseless, Nos 50, 60, 65 and 65.80%
O. S. Lull & Porter.....80&10&5%
Pioneer, Nos. 060, 45 and 5½..75&5%
Steam oat Gravity Locking, No. 10.....80&10&5%
Stenger's Noise'ess.....75%
Mortise Gravity.....50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.20.....40&10%

Hitching Cords—

Covert Mfg. Co.....45%

Hoes—

HANDLED—

Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy..₩ doz. $4 50 net
Cotton.....80&12½%
Dunlap's Boys', Ladies', Toy.....35%
Garden.....75&20%
Mortar.....75&25%
Iowa Crucible Socket.....75&20%
Magic.....₩ doz $4.00
Mattock Hoe.....₩ doz. $3.75 net
Planter's.....80&15%
Texas Cut-Easy.....₩ doz. $4.25 net
Warren Hoe.....60&10%

EYE—

American Axe & Tool Co.....70%
Grub.....70&10@75&5%
Lane's:
Crescent Planters Pat.....45&5%
Razor Blade, Scovil Pat.....30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil.....30@30%

Hog Rings and Ringers—

Hill's:
Rings.....₩ gr. boxes..$3.00@$3.25
Ringers.....₩ doz. 50@55c
Perfect Rings.....₩ gro. $7.00@$7.50
Perfect Ringers.....₩ doz. 80c

Hollow Ware—

IRON—

Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware.....40&10%
Peerless Enameled-Ware...70&10%
Crystal Steel-Ware.....50&10%
Blue and White-Ware.....(0&10%
White-Ware.....35&10%

STOVE HOLLOW-WARE:—

Ground.....60&10&10@70%
Unground.....70&5@75%

WHITE ENAMELED-WARE:—

Boilers and Saucepans....62½@65%
Maslin Kettles,...75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—

4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co.....40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co.....40&5%
Reed & Barton.....40&5%
Rogers & Brother.....40&5%
Simpson, Hall, Miller & Co.....40&5%
William Rogers Mfg. Co.....40&10%

Hooks—

BUSH—

Jennings & Griffin's.....40&10%
Light ₩ doz. $5.00: Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—

Bird Cage, Sargent's list...60&10&10%
Bird Cage, Reading.....60@60&10%
Bird Cage, Williamson.....50%
Ceiling, Sargent's list.....50&10%
Chandelier.....70%
Clothes Line, Sargent's list..5(&10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading.....60&10%
Coat and Hat, Stowell's.....70%
Harness, Sargent's list....50@50&10%
Lamp.....55%
Picture.....75%
Screw Hat.....70%
Wardrobe.....55%

WROUGHT IRON—

Cotton.....₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works.....30%
Hammock Hooks, E. C. Stearns, ₩ doz.....60c
Picture, T. & S. Mfg. Co.....75%
Tassel, T. & S. Mfg. Co.....50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—

Enterprise.....33⅓%
Wm. Johnson's:
8 in.....₩ doz. $2.20 net
10 in.....₩ doz. $2.70 net

WIRE—

Atlas Coat and Hat.....50&10%
Belt.....60@60&10%
Handy Coat and Hat.....70%
Steady Ceiling.....70%
Wire Coat and Hat, Acme...60&10%
Wire Coat and Hat, Gem.....70%
Wire Coat and Hat, Standard....45%

MISCELLANEOUS—

Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks.....60&20%
Dunlap's Merchandise.....25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass.....70&10%
Hooks and Eyes—Mal. Iron.....75%
Wm. Johnson's Cotton, Box and Hay.....60%
Stowell's:
Clothes Line.....70%
Harness.....70%
Hotel & School House.....70%
Whiffletree.....₩ D 4¾c

Horse Nails—

	Nos. 6	7	8	9	10
A. G.	35c	25c	23c	21c	21c.

40&10%

American, all sizes, 9½@10c.....net
Ausable.....28c 26c 25c 24c 23c. 40&10&5%
Anchor.....28c 21c 20c 19c 18c.....40%
C. B. K.....25c 23c 23c 21c. 21c 40%
Capewell...19c 18c 17c 18c 16c..10&5%
Champlain..28c 26c 25c 24c 23c 40&5&2%
Clinton Fin.19c 17c 16c 15c 14c. 30&10&5%
Empire Bronsed.....10c
Essex.....28c 26c 25c 24c 23c. 40&10@60%
Lyra....9½c 9½c 9½c 9½c 9½c., net
Maud S.....35c 28c 23c 21c. 21c 40&10&5%
Northw't'n.25c 23c 23c 21c 20c. 35@35&5%
Putnam.....23c 21c 20c 19c 18c....35%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan.....28c 21c 20c 19c 18c....35%
Western, 5 to 10d.....9c

Horse Shoes—

See Shoes.

Horse Ties—

Covert Mfg. Co.....45%

Hose, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial".....40&5%
Competition.....75@75&10%
Extra.....60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@70&10&5%

Ice Awls, Chippers, &c.—

Copeland Ice Pick....₩ gr $9.00 net
Crown.....net
Dunlap's:
No. 1.....$3.50 per doz 20%
No. 20.....$12.00 per doz 20%
Gem Ice Shave.....net
Sargent's Ice Awls.....55%
Star.....net

Ice Shredders—

Enterprise, No. 33, ₩ doz. $6.00..35%
No. 34.....₩ doz. $15.00.25%

Jack Screws—

See Screws.

Kettles—

Spun Brass, Plain.....15@20%
Spun Brass, plated inside with White Metal.....10@15%

Knives—

Ames':
Bread Knives. ₩ doz. $1.50...20@25%
Butcher Knives.....25@25&10%
Shoe Knives.....25@20%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c.....40%
Goodell's:
Bread Knives Ass'n list.....net
Butcher.....25%
Shoe Knives.....40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives.....50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—

Bardsley's Wood Door, Shutter and Base.....15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr.....$1.25@$1.50
Carriage, Jap.....₩ gro. 80c, 5&10%
Door Knobs, Hemacite.....50&10%
Door Mineral.....₩ doz. 55@60c
Door Por. Jap'd.....₩ doz. 65@70c
Door Por. Nickel..₩ doz..$1.70@1.80
Drawer, Porcelain.60&10@60&10&10%
Picture, Hemacite.....50&10%
Picture, Judd's.....50&10&10%
Picture, Sargent's.....70&10%
Shutter, Porcelain.....70%
Yale & Towne Wood, list Dec. '95. 40%

Lace, Leather—

John C. Hagan & Co.:
Rawhide Side Lace, No. 1 ₩ ft.18c
Tanned Side Lace.....₩ ft. 8c
Cut Lacings, ¼ in., ₩ 100 ft...$1.00
Cut Lacings, 5 16 in., ₩ 100 ft..$1.25
Cut Lacings ⅜ in., ₩ 100 ft...$1 0
Cut Lacings, ½ in., ₩ 100 ft...$2.00
Cut Lacings, ⅝ in., ₩ 100 ft...$2.75
Cut Lacings ¾ in., ₩ 100 ft...$3.25
Discount from list, 60%

Ladles, Melting—

Monroe's Pat.....₩ doz $4.00, 45%
P. S. & W.....35&10@40%
Reading.....50&10%
Sargent's.....60@60&10%
Warner's.....30%

Lanterns—

Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list.....$30.00
No. 16 Buhl side Lever, ₩ doz. list.....$7.50
No. 10 Buhl Improved Regular, ₩ doz. list.....$7.00
No. 200 Buhl Square Top Lift, No. 2, ₩ doz. list.....$11.00
No. 150 Buhl Dash Reflector, ₩ doz. list.....$10.00
No. 2 0 Buhl Dash Reflector, No. 2, ₩ dos. list.....$17.00
Discount.....40&5%

Latches—

Cronk's Sliding Door.....60%
Lane's Barn Door.....40%

Lawn Mowers—

Champion.....75&10%
Clipper Improved.....50&10&10&5%
Continental.....60&10%
Drexel Cheap Mowers.....net
Enterprise.....40%
Genuine Philadelphia Mowers:
Styles M., S., C., K., T.....70&10%
Style A., (all steel).....60&10%
Style E, Low Wheel.....60&10%
Style E., High Wheel.....70&10%
Dre el, low list.....50%
Gold Coins, low list.....50%
Great American.....70&10%
Imperial.....60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy.....30&10@60&10&10%
New York.....60&5%
Pastime:

12 in.	14 in.	16 in.
$6 00	$6.25	$6.50 each net

Pennsylvania.....60&10%
Rapid Transit.....70&10&10%
Standard.....60&5%
Sunbeam.....50&10%

Lawn Sprinklers—

Enterprise.....35%
Gibbs' Arc.....₩ doz. $10.00
Gibbs' Hustler.....₩ doz. $5.00

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Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1. No. 2. No. 3.
℔ doz. $12.00 $15.00 $24.00..35%

Lemon Squeezers—

Berger Bros. ℔ doz. 8-in. $1.00: 10-in. $1.40.....20%
Dean's, Nos. 1, ℔ doz. $6.50; 2, $8.35 3, $1.65; Queen $3.50 net
Dunlap's Improved ℔ doz. $3.75 20%
Hotchkiss, Straight Flush ℔ doz. $9.00
Jennings' Star...℔ doz. $1.90@$2.00
Little Giant.....50@50&5%
Porc. Lined, Iron.....$3.25@$3.50
Porc. Lined, Wood....℔ doz. $6.00 30&10@40%
Wood, Common ℔ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—

Name Door Plate.....50@60&10%
Name Plate.....70%
Number Door Plate.....60@60&10%
Sargent's.....60&10@70%

Levels—

C. E. Jennings & Co.'s:
Hexagon.....35&10%
Iron Bench, new design....35&10%

Lifters—

See Transom Lifters.

Lines—

Cotton and Linen Fish, Draper's.50%
Cotton Chalk, 20 feet.....60&10%
Cotton Trot.....33⅓%
Masons':
Colored Cotton.....40&10%
Flax.....40&10%
No. 0 to 5.....35%
Samson, Cotton, No. 4, $2; No. 4½, $2.50.....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ℔ gro.....35%
Ventilator Cord, Samson Braided. White or Drab Cot. ℔ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &C.—
Barnes Mfg Co.....40@40&10%
Branford Lock Co.....net prices
Brooklyn Latches.....60&10%
Champion Night Latches.....40%
Dietz Flat Key.....30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co.....60&10%
Plate.....33⅓%
B. & E. Mfg. Co.....60&10@70%
Reading Hdw. Co.....60@60&10%
Romer's Night Latches.....50&5%
Sargent & Co.....60&10@50&10&10%
Slaymaker, Barry Co's:
Corrugated Key Latch.....35&5%
All other Night Latches.....40%
Yale.....net prices

CABINET—
Barnes Mfg. Co.....40@40&10%
Dietz:
Nos. 23 to 39.....40%
Nos. 41 to 78.....45%
Nos. 87 to 96.....30%
Eagle Lock Co.....45&5%
Charles Parker Co.....45&5%
Romer's.....35%
Stoddard Lock Co.....30@33⅓%
Yale.....45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00.....40%
Ames Sword Co.....40%
Barnes Mfg. Co.....50@50&10%
Champion.....40%
A. E. Dietz.....40%
Eagle.....40%
Eureka, Eagle Lock Co.....40&5%
Gem, Corbin's.....40&5%
Romer's Nos. 0 to 9.....40&5%
Scandinavian.....90&40@90&40&10%
Smith & Egge Bicycle.....50%
Wrought Iron.....75@80%
Yale Lock Co.....net prices

TRUNK—
Corbin's.....35%
Eagle.....35%

Mallets—

Sargent's List
Hickory.....50@35&10%
Lignumvitæ.....50@35&10%
Raw-Hide.....40&10%

Mattocks—

Regular list.....70@70&10%

Meat Cutters—

American.....30%

Nos.	1	2	3	4	B	5
Each.	$5	$7	$10	$35	$50	$60

Beef Shavers (Enterprise).....30%
Cnadborn's Smoked Beef Cutter, ℔ doz $60.00
Dixon's.....℔ doz 33⅓%

Nos.	1	2	3	4
	$14	$17	$19	$30

Enterprise.....25%

Nos.	10	12	22	33	42
Each.	$3	$3.50	$4	$6	$15

Hales Pattern ℔ doz.....70@70&5%

Nos.	11	12	13
	$27	$33	$45

Home No. 1..℔ doz $26.....60%
Little Giant.....50&10%

Nos.	305	310	313	320	323
	$35	$43	$44	$72	$68

Miles' Challenge ℔ doz...45@45&10%

Nos.	1	2	3
	$22	$30	$40

Perfection.....net
Woodruff's ℔ doz.....33⅓%

Nos.	100	150
	$15	$18

Meat Juice Extractors—

Enterprise.....25%

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ℔ lb..25c
No Name.....℔ lb..15c
Mystic.....℔ lb..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ℔ doz.$12.00

Motors—

COFFEE MILL—
Specialty Novelty Co.....each $5. 0

Nails—

WIRE AND CUT NAILS—
See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....85%
Wire Nails.....85%

PICTURE—
Brass Head, Combination list, 50&10%
Brass Head, Sargent's list, 70&10@70&10&5%
Niles' Patent.....40%
Porcelain Headd, Comb'n list,..40&10%
Porcelain Head, Sargent's list, 50&10%

FURNITURE—
Antique Bronze.....10%
China.....35%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ℔ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....℔ doz $18.00, 20%
National.....℔ doz. $24 00, 40%
Pelican.....℔ doz $9.00, 15&10%
Scranton No. 2.....℔ doz. $10.00
Scranton No. 3.....℔ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point℔ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.....℔ gro. $10.00
Hunters' Cup Point, Plain.....℔ gro. $9.00
Round, assorted.....℔ gr. $3.00@3.25
Square.....℔ gr. $4.00@4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ℔ gross $30.00..40%
Turner & Seymour Mfg. Co.....60%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6 30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....℔ doz. $1.65
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....35%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—
Pikes Washita:
Lily White, ℔ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ℔ lb.....50
No. 1.....40
No. 2.....30
Pike's Washita Round Edge Slips: 3 to 5x1¼ to 2⅜ to ⅝ at back, ⅛ to 5-16 edge ℔ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ℔ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ℔ doz.....$13.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x⅝ to 1½, ℔ lb..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—
Boston Belting Co.:
"Boston".....60%
"Excelsior" Self-Vulcanising, per lb 70c.....40%
Boston "Phœnix" Red Sheet, per lb..... 50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality..70&10@75%

MISCELLANEOUS—
American Packing.....9c@10c ℔ lb
Cotton Packing.....14c@15c ℔ lb
Italian Packing.....12c@14c ℔ lb
Jute.....6c@7c ℔ lb
Russian Packing.....13c@14c ℔ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance	℔ doz	$4.50
Baldwin	℔ doz	5.00
Bonanza	each	5.00
Daisy	℔ doz	3.50
Dandy	each	7.50
Eureka, 1888	each	16.00
Family Bay State	℔ doz	12.00
Favorite	℔ doz	5.00
Gold Medal	℔ doz	4.00
Ideal	℔ doz	4.00
Improved Bay State	℔ dz.	$27@30.00
Little Star	℔ doz	4.00
Monarch	℔ doz	13.50
New Lightning	℔ doz	5.50
Oriole	℔ doz	4.00
Penn	℔ doz	3.00
Perfection	℔ doz	4.00
Pomona	℔ doz	4.00
Reading, 72	℔ doz	4.00
Reading, 78	℔ doz	7.00
Rocking Table	℔ doz	5.50
Scott's Pat. Rotary,	℔ doz	$15.00, 20%
Turntable	℔ doz	4.50
Victor	℔ doz	13.50
Waverly	℔ doz	3.75
White Mountain	℔ doz	4.00

POTATO—

Antrim Combination	℔ doz	5.50
Hoosier	℔ doz	13.50
Saratoga	℔ doz	5.50
White Mountain	℔ doz	$4.50

Pencils—

Dixon's:
Carpenters'.....℔ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....℔ gro. 9.00
Lead.....℔ gro $4.50
Lumber.....℔ gro. 6.87
Mascot, Hexagon .....℔ gro. 8.88
Mascot, Round.....℔ gro. 8.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—
Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—
Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....35%
C. E. Jennings & Co., Iron....50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's...50&10&10@50&10&10&5%
Miscellaneous.....35&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—
Auburn "Thistle".....
Ohio.....
Sandusky.....
} 30&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....30&5@25%

Pliers and Nippers—

Button's.....70@70&10%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70@70&10%
Fencing Pliers, ℔ doz $12.00...75%
Flat and Round Nose.....33⅓%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ℔ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50&10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ℔ doz $13.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....30%
Swiss Pliers.....35%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....30%
Iron Levels.....35&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's.....75&10&10%
Stanley's Duplex.....35&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....35%
R. I. Tool Co., Handcuffs, $15.00 ℔ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ℔ doz.....10%
Tower & Lyon's.....35%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....℔ lb 8c
Joseph Dixon's.....℔ gro $5.75, 10%
Gem.....℔ gro $4.50, 10%
Lustro.....℔ gro $4.75
Rising Sun.....℔ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ℔ doz. $ .75; ℔ gr. $6.50
1½ qt.℔ doz. $ .85; ℔ gr. $8.00
2 qt., ℔ doz. $1.15; ℔ gr. $12.00
} 10@15%
Quincy Corn Popper, 1 qt., ℔ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—

Ryan's.....℔ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Cronk's Heavy Pattern, ℔ doz. $2.70 net
Disston's Combined Pruning Hook and Saw...℔ doz $18.00, 25@25&10%
Disston's Pruning Hook.....℔ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....℔ doz $3.50, 30%
Henry's Pruning Shears ℔ doz $3.50@$3.75
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ℔ doz.....$3.50@3.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....℔ doz $12.00, 25&10%

Pulleys

Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@50&60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%

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Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..35&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 338, 3 in. Shallow Well Pump.....$13.00
No. 8, Fig. 336, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig. 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14, Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 32, Fig. 538, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 333, 3½ in. Shallow Well Pump.....$17.00
No. 70, Fig. 333, 2¾ in Deep Well Pump.....$15.00
No. 73, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 103, Fig. 443, 3 in. Lift Pump.....$10.00
No. 108, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 123, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 235, Fig. 389, Windmill Pump.....$12.50
No. 250, Fig. 403, Windmill Pump.....$13.50
No. 295, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 406, Regulator Pump.....$20.00
No. 260 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 265, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 488, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 518, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 320, Fig. 493, Bucket Spray Pump.....$5.50
No. 331, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@55
Check.....55%
Spring.....50&5%
Springfield Socket.....55%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

	3/4	7/8	1
Per 100 feet	$1.40	1.55	1.80

Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:

	Small	Med.	Large
Per 100 feet	$1.60	2.00	2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2½c
Common.....₩ foot, 2¼c
Double Braced.....₩ foot, 2¾c
Lanes' O. N.T.....₩ 100 ft. $3.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft 3c
Sliding Door, Wr't Brass, 1¼ in. ₩ ft, 35c.....30&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.60
Boss, Garden, 13 teeth, net ₩ doz. $2.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.30
Lawn Rake.....₩ doz. $4.75
Malleable.....70&10@75%
Onaida Lawn.....doz., $6.00
Pearless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....30%
Westenholm and Butcher, $10.00 to £.....10%

Registers—

HOT AIR—

Ferosteel new list, 1897:
Black Japanned.....40&10%
White Japanned.....30&10%
Bronze-plated.....40%
Nickel plated.....40&10%
Stowell's old list:
Japanned.....30&10%
Nickel-plated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....30%
Thousand, in bulk.....30&5%
Thousand, in papers.....30 &5%
Coopers, in bulk.....30%
Block, and Carriage, in papers.30%
Hame.....30%
Belt with burrs, tinned or copperred.....75%

Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..30&10& 10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope—

Cotton Rope, Best, ¼ in. and larger.....₩ ₺ 13 @14c
Medium, ¼ in. and larger.....₩ ₺ 10 @12c
Common, ¼ in. and larger.....₩ ₺ 8½@10c
Jute Rope.....₩ ₺ 5½@5½c
Manila:
7-16 in. and larger.....₩ ₺ 6½c
½ in.....₩ ₺ 7 c
⅝ and 5-16 in.....₩ ₺ 7½c
Hay Rope, Med.....₩ ₺ 6½c
Sisal, ½ in.....₩ ₺ 6 c
¼ and 5-16 in.....₩ ₺ 6½c
7-16 in. & larger.....₩ ₺ 5½c
Med. L'th Y'rn.....₩ ₺ 5 c
Hay Rope.....₩ ₺ 5½c

Rules—

Athol, Steel.....33⅓%
Boxwood..30&10&10&10@30&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....35&10%

Sad Irons—

Chinese Laundry.....₩ ₺ 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ₺ 2¼@2¼c

COLD HANDLED—

Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, ₩ doz..... $6.50
No. E 50, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4 00
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.50
No. E 55, plain polished, size 1, 2 or 3 without handles, ₩ doz. $3 50
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz .....$ 7.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9 37
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.25
No. E 65, plain polished, size 4, with "best" handles.....$8.30
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$3.50
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $23.50, 35%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $5.50
Sensible, Tailors'.....₩ ₺ 30@34c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....30&10@30%
Garnet Paper.....30@30&5%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ₺ 16c
Cable Laid Russia....₩ ₺ 13½c@14c
Common.....₩ ₺ 8½@9c
Common Russia Sash.₩ ₺ 12½c@13c
India Hemp Sash.....₩ ₺ 9½c@10c
Jute, good quality.....₩ ₺ 11c
Samson:
"Mass." White, Cotton.....34c
"Samson" Braided White, Cotton.....₩ ₺ 30c
"Samson" Braided Drab, Cotton.....₩ ₺ 35c
"Samson" Braided Italian Hemp.....₩ ₺ 38c
"Samson" Braided Linen, ₩ ₺ 56c
Silver Lake:
A Quality, Drab..₩ ₺ 55c. 35@40%
A Quality, White, ₩ ₺ 50c. 35@40%
B Quality, Drab, ₩ ₺ 35c..... 15@15&7½%
B Quality, White ₩ ₺ 30c..... 15@15&7½%
White Cotton Braided, ₩ ₺ 31c@33c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....30&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze. Barnes Mfg. Co...60%
Elting's Ventilating.....40@70%
Fitch's.....70&10%
Gale's Automatic, List, Nov., '97.65%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $30.00@$31.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....45@50%
Cross Cuts.....40&10%
Gang.....45%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—

Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. .$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets, ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $10.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $32.00: No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@ $18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$3.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '93.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....₩ doz., $3.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. L Tool. Co.....10%

Screens—

DOORS—

Phillips:
Empire Fancy.....50%
Fancy Pine.....40%
Painted.....60@60&5%
Stained.....60&5%
Standard Oil.....50&10%

WINDOW—

Phillips:
Bonanza Screens.....60&10%
Flyer.....60&10%
Perfection Screens.....60&10%
Window Screen Frames....60&10%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....50@50&10
Pat. Excelsior.....50&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
125 A.....70&10%
126¼ Extra.....70%
128 Ebonised Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....₩ doz., 50@75c
Screw-Driver Bits, Parr's ₩ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 86.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....35%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—

Brass, Flat Head.....87½&10%
Brass, Round Head.....35%
Bronze, Flat Head.....35&10%
Bronze, Round Head.....35%
Copper, Flat Head.....35%
Copper, Round Head.....30%
Dowel Screws.....35%
Drive Screws, Rogers'.....90%
Iron, Bright Flat Head.....87½&10%
Iron, Br't R'd & Oval Head.....35%

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Iron, Forged Flat Head....87½&10%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Side Knob Screws.....8%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—
List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....60%

COACH, LAG AND HAND RAIL—
Coach. List, Feb. 14, 1895.....82½%
Hand Rail.....82½%
Lag Screws. List Jan. 30, 1895. 80&10&5@85%

BENCH, HAND, ETC.—
Bench, iron, ₩ doz., 1 in., $2.75; 1½, $3.00; 1¼, $3.50
Bench, Wood, Beech. ₩ doz $2.00@2.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....60&10%

Scroll Saws—
Barnes' No. 1, $6; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....25%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—
Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—
Raisin, Enterprise..... .....25%

Shaft Couplings—
Bradley's:
Buggy, No. 8, ₩ Set.....$2.25
Surrey, No. 9, ₩ Set..... $2.60

Shears—
Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....30&20%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs. ₩ doz. $3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc.50&10&10@70&5%
Tailor's Shears..... 40@40&5%
Tinners' Snips.....40@ 0&5%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—
SLIDING DOOR—
Corbin's list.....60&10&2%
Hatfield's Pattern.....70&10@30%
M. W. Co., list July, 1892.50&10@50&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@50&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&2%

SLIDING SHUTTER—
Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—
HORSE—
Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb's..$3.15@$3.40
Gibbs' Rubber, Pat.....₩ set, $1.50
Perkins Steel Side Weight Hind $3.15@$3 40
Perkins Improved Snow.....₩ ₺ 4c
W. & B. Rubber Pad....₩ set, $2 50

MULE—
Add 50c ₩ keg to above prices.

OX, WROUGHT—
Ton lots.....₩ ₺ 9c
1000 ₺ lots.....₩ ₺ 9½c
500 ₺ lots.....₩ ₺ 10c

Shot—
See Ammunition.

Shovels and Spades—
O. Ames & Sons:
C. S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel 10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—
Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—
Hunters' Genuine, ₩ gross, $10@11.50

Skate Sharpeners—
Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—
Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro. $30.00@$37.00
Kraut Cutters.....50@50&10%
Woodrough & McFarlin.....40%

Slicers—
Vegetable, Enterprise.....25%

Snaps, Harness, &c.
Anchor (T. & S. Mfg. Co).....65%
Cockeyes.....70&10%
Covert Mfg. Co.....45&2@50%
Fitch's:
Bristol.....40&10%
Champion.....40&10%
Clipper.....0&10&5%
Empire.....0&5%
National.....0&5%
Victor.....0&5%
German, new list .40&10@40&10&10%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%
Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel..... } 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—
Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....30%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33½%
Wood.....₩ doz. 25&10%

Spoons and Forks—
TINNED IRON—
Basting, Cen. Stamp. Co's list. 75&10@30%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33½&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—
4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—
Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
22% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—
See Door Springs.

Squares—
Disston Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.50&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&10&10%
Steel and Iron.. }

Stair Rods—
Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—
Barbed Blind—⅛, 5/16, and ¾ inch, ₩ ₺.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—
BICYCLE—
Holroyd & Co.....35%

BLACKSMITH'S—
Butterfield's.....35@40%
Gardner.....33½&10%
Holroyd & Co.....40@50%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%

PIPE MAKERS—
Holroyd & Co.....75&10@80%

Stones—
See Oilstones.

Stops—
See Bench Stops.

Stove Polish—
See Polish, Stove.

Sweepers—
See Carpet Sweepers.

Tackle Blocks—
See Blocks.

Tacks, Brads, &c.—
List March, 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&20@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....80%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....80%
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10%

MISCELLANEOUS—
Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2.00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks. ₩ gr $4.00
Dble. Point.90&10&10&10&10&10%
Hammer Carpet Tacks...₩ gr. $4 50
Miniature Keg Tacks..66⅔&33⅓&8 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&8 10&2%

Tack Pullers—
Columbia, No. 1, per doz., net,....$1
" " 2, " " ...1.50
Little Jack.....₩ doz. $1.40

Tapes, Measuring—
American.....40&10@50%
Chesterman's.....30@3 &5%
Keuffel & Esser Co, New list, 1892:
Steel and Metallic.. .....3%
Lufkin's Steel and metallic..30&10%

Taps—
American Screw Co.
Machine Screw.....70%
Holroyd & Co.'s:
Blacksmiths.....60@65&5%
Machine Screw.....70&10@75%
Machinists' Hand...60@60&10&10%
Pipe.... .....85@85&10 &5%

Telephones—
Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse...each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated—
Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1 55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—
Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33½%
Snips—"Clauss".....30%

Tinware—
Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&35%

Tobacco Cutters—
National Specialty Co.....40%

Trammel Points—
Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33½%
Prentiss'.....30@35%

Tracks, &c.—
F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track...$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433 ₩ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps. ₩ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 485, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .55
Floor Pulley, Wood Sheave, Fig. 486, ₩ doz.....$2.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 390 and 391 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 484, ₩ doz.....$2.25
Rev. Car., Double Steel Track $2.50
Rev. Car., Wood Track.....$2.25
Rope Hitch. ₩ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 555, ₩ doz.....$1 50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—
Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5%@ 0&10%
Crescent .....7.@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 303 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....30&10%
Lever.....70@70&10%

Traps—
GAME—
Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—
Enterprise Mfg. Co., Mole.....15%
Rat.....40@40&10%
Household.....₩ gr $10.00
Hotchkiss:
Metallic Mouse,.....₩ doz. 65c
Improved Rat.....₩ gross, $13.50
New Rat.....₩ gross. $13.50
Mouse, Bonanza....₩ doz 90c@$1.00
Mouse, Catch-'em-Alive ₩ doz $3.50,1.15
Mouse, Delusion..... 40%
Mouse, Ideal..... ₩ gr $9.00
Mouse, Round Wire. ₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $13.50; No. 2 ₩ gro., $15.00

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Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00
Specialty Novelty Co:
Snap Shot, 2-Hole....₩ gro., $4.50
Snap Shot, 4 Hole....₩ gro., $6.50

FLY-

Balloon, ₩ doz $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....25@33⅓%
Disston's:
Brick.....3[illegible]%
Plastering.....25%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Ventilators—

CHIMNEY—

Pancoast's Double Deflector.70&10%

WINDOW—

Pancoast's "Common Sense," ₩ doz. $9.00

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....60%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....35&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action.....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....50%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2&3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Weed Diggers—

"Pastime".....₩ doz. $1.75 net

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....35&10%

Window Mirrors—

Bayer & Co.'s..... ₩ doz. $24.00 net

Window Stop Adjusters—

Taplin,s "Perfection".....50%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 35&10@35&10&10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@75&10&5%
Galv., Nos. 0 to 18, 75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@ 80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft.,$1.15@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....2½&2½&2½ cash
Iron.....20&2½&2½ cash
Iron, Galvanized..20&2½&2½ cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Agricultural.....80@80&10%
Alken's Pocket (Bright)..$3.00@3.20
Alligator.....60@60&10%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....20&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10 &5&5&3%
Coes' Pattern Wrought.....80&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Lamson & Sessions':
Engineers'..... .....60@6[illegible]
Standard.....70&1[illegible]
Lowell:
Leg Screw.....[illegible]
Ratchet.....
Socket Bridge.....
Stillson Pipe.....
Taylor Pipe and Nut.....
Trimo Combination.....
Trimo Pipe.....80&1[illegible]
Wakefield Pipe and Nut.....
Wh'tman & Barnes:
Acme .....
All-steel Pipe .....80&1[illegible]
Always Ready.....35@40&10
Bull Dog.....60&10
Diamond Cycle.....₩ doz $3.0[illegible]
Drop Forged Engineers.35@40&1[illegible]
Hercules .....70&1[illegible]@7[illegible]
Improved Knife Handle Pipe 60@6[illegible]&[illegible]
Machinis's' Knife Handle.[illegible]&10 @[illegible]&[illegible]&[illegible]
Regular.....8 &5@ 0&.0&[illegible]
J. H. Williams.....
Yankee.....

Wringers, Clothes—

In lots of less than one dozen
Am. Wringer Co.'s list, Ju[illegible]
Colby Wringer Co., list Ma[illegible]
Lovell Mfg. Co., list July 1[illegible]
National Wringer & Mfg. C[illegible] Jan. 1, 1895.....
Peerless Mfg. Co., list Feb[illegible]
NOTE.—On lots of 1 do[illegible] count of 10% is often given.

PAINTS, OILS AND COLORS

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....41c
Linseed, City, Boiled, in barrels ₩ gallon.....43c
Out of Town on Spot..₩ gal.....41c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard. Prime City.....₩ gal. 39@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....6c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 5@5½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾c
Putty in Bladders.....1½@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

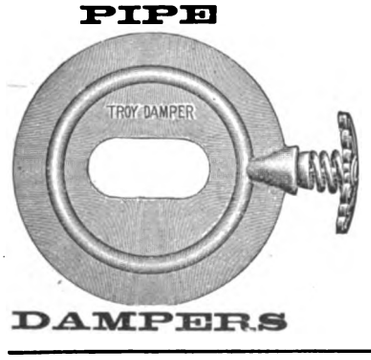
In regular bbls.....34½@——c
In machine bbls.....35@——c

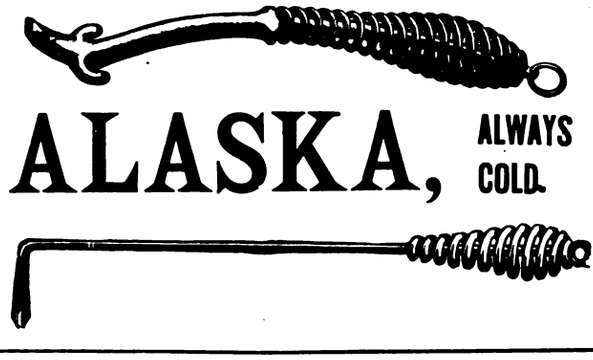
Dry Colors—

Blue, Chinese.....₩ lb 37 @[illegible]
Blue, Prussian.....₩ lb 30 @35
Blue, Ultramarine..₩ lb 8 @[illegible]
Sienna, Italian, burnt & powd red ₩ lb 3½@[illegible]
Sienna, Italian, raw & powdered...₩ lb 3 @[illegible]
Umber, Turkey, burnt.....₩ lb 2½@3½
Umber, Turkey, raw.....₩ lb 2½@3
Green, Chrome, Common.....₩ lb 5 @[illegible]
Green, Paris, in bulk, ₩ lb 11½@12½
Indian Red, American.....₩ lb 2 @3
Indian Red, English.....₩ lb 4½@[illegible]

Colors in Oil—

Black Coach Japan ₩ lb..12½@[illegible]
Black Coach Japan, in Oil.....₩ lb 12 @13
Black Drop.....₩ lb 7 @10
Black Lampblack...₩ lb 20 @33
Black Lampblack, common.....₩ lb 7@15
Blue, Chinese.....₩ lb 35 @40
Blue, Prussian.....₩ lb 20 @40
Blue, Ultramarine..₩ lb 12 @13
Brown, Sienna, bur't ₩ lb 8 @13
Brown, Sienna, raw. ₩ lb 8 @13
Umber, burnt.....₩ lb 7 @10
Umber raw.....₩ lb 7 @10
Brown, Vandyke....₩ lb 7 @13





STOVE LID LIFTERS
POKERS, SHOVELS, FIRE SETS.
Patentees and Sole Manufacturers,
TROY NICKEL WORK
ALBANY, N. Y.

"USEFUL AS AN ADVERTISING MEDIUM."

Smith & Egge Mfg. Co., Bridgeport, Conn. [*Traps, Locks, Chains, Pulleys, etc.*]: We have found your paper very useful as an advertising medium.

"READS ADS. AND ALL."

Fred. A. Welles, Milwaukee, Wis.: I like your paper first rate, and I read the advertisements as well as the rest.

"BETTER THAN ANY OTHER TRADE PAPER."

S. L. Allen & Co., Philadelphia, Pa. [*Agricultural Implements, etc.*]: We have found results of our advertising with you better than in any other trade paper.

"A GOOD REPRESENTATIVE OF THE TRADE."

Warwick Cycle Mfg. Co., Springfield, Mass. [*Bicycles*]: We have always considered HARDWARE a good representative of the Hardware trade.

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BRUCE & COOK,

TIN PLATES AND METALS,

186, 188 and 190 WATER STREET,
248 and 250 PEARL STREET, . . . NEW YORK.

We give below a list of goods which we have in stock. You will find our prices as low as any in the trade, quality considered. It will give us pleasure to receive your orders, which shall have our very best attention and prompt shipment. . .



Antimony.
Babbit Metal.
Boiler Rods.
Burritt's D'ble Seamer.
Copper Bottoms.
Copper Circles.
Copper Ingot.
Copper Sheets.
Copper Wire.
Corrugated Leader.
Cor. Elbows and Shoes.
Dampers.
Eave Trough Leaded.
Eave Trough Galvan'd.
Eave Trough Mitres.
Eave Trough Irons.
Elbows--Stove Pipe.
Elbows--Adjustable.
Fire Pots.
Gem Gasoline Furnaces
Gutter, Wide Roof.
Gutter Strainers.
Hard Metal.
Kettle Ears.
Lead--Bar and Pig.
Leader Hooks.
Malleable Ears.
Mallets.
Metal Lath.
Metallic Paint.
Nails--Roofing Tinned.
Nails--Wire Roofing.
Nails--Wire R'g Tinned
Pail Woods.
Perforated Tin.
Ribbed Leader.
Rivets.
Roofing Tin Plates.
Roofing Seamers.
Rosin.
Sheathing Paper.
Sheet Iron--Char. Cl'd.
Sheet Iron--Cold Rol'd.
Sheet Iron--Com. Cl'd.
Sheet Iron--Corrugated
Sheet Iron--Galvanized
Sheet Iron--Planished.
Sheet Iron--Russia.
Solder.
Soldering Coppers.
Spelter.
Spelter Solder.
Squaring Shears.
Stove Boards.
Stove Pipe.
Stove Pipe Collars.
Strainer Wire Cloth.
Taggers Iron.
Taggers Tin.
Terne Plates.
Tin--Bar and Pig.
Tin Plates.
Tin Shingles.
Tinners' Machines.
Tinners' Tools.
Ventilators--Globe.
Wall Hooks.
Water Cut-offs.
Wire--Annealed.
Wire--Bright.
Wire--Coppered.
Wire--Galvanized.
Wire Tinned.
Zinc for Etching.
Zinc Sheets.

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HIGH GRADE MEASURING TAPES,

MADE IN AMERICA.



KEUFFEL & ESSER CO., NEW YORK,

127 FULTON ST.

MANUFACTURERS OF

STEEL, METALLIC AND LINEN TAPES.

POCKET TAPES, STEEL RULES, &c.



FACTORIES AT HOBOKEN, N. J.



HIGHEST GRADE AND QUALITY, SUPERIOR TO ALL OTHER MAKES, DOMESTIC OR IMPORTED.

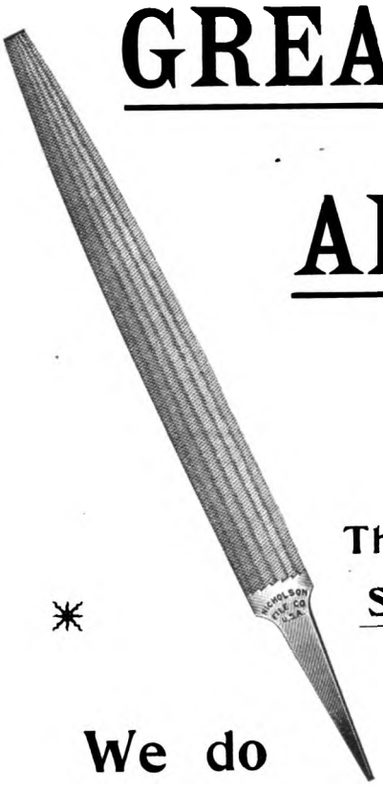
SEND FOR CATALOGUE OF 1898, JUST ISSUED.





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GREAT WESTERN AND AMERICAN FILES.





They are Reliable and Staple, and are advertised as such.

We do not make use of Flash Advertisements to introduce Novelties.

We are not kept busy Shipping Samples in order to get our brands tried.



They are purchased and Used by Critical Mechanics throughout the World.

MATERIAL The Best. **TEMPER** Thorough. **TEETH** Sharp and Strong.

AND

Made in the Great Western and American branch factories of the LARGEST and BEST-REPUTED FILE CONCERN IN THE WORLD, a concern whose GUARANTEE IS A BOND.

NICHOLSON FILE COMPANY,

HEAD OFFICE,

PROVIDENCE, R. I., U. S. A.

4 FACTORIES, 3000 VARIETIES IN STOCK, 70,000 DAILY PRODUCTION.

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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



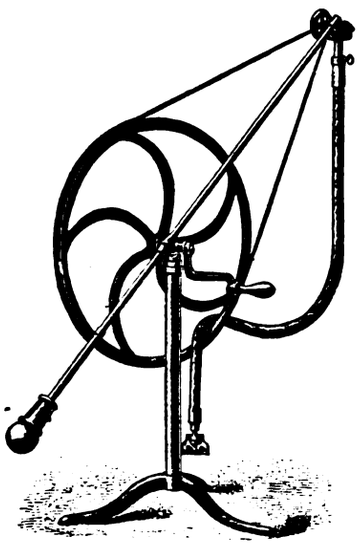
BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS, BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, Etc.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

Main Office and Works, No. 240 North Union St., Chicago, Ill., U. S. A. Eastern Office, No. 284 Pearl St., New York.



IMMENSE REDUCTION IN PRICES.

"Model B" reduced from $35.00 to $20.00; "Model E" from $25.00 to $15.00. Two cutters with each machine. Order direct, or from any dealer or agent. . . . .

OVER 2000 MACHINES SOLD IN SIX MONTHS.

1000 Machines and 10,000 Cutters in Stock.

Highest Prize at World's Fair. The original and only absolutely flexible shaft on the market. . .

ADVANCE ORDER FOR 3000 IN EUROPE ALONE.

. . CATALOGUE SENT FREE TO ALL . .

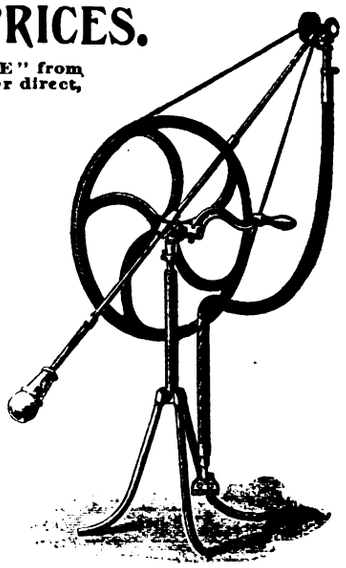
SHOWING OUR DIFFERENT STYLES OF

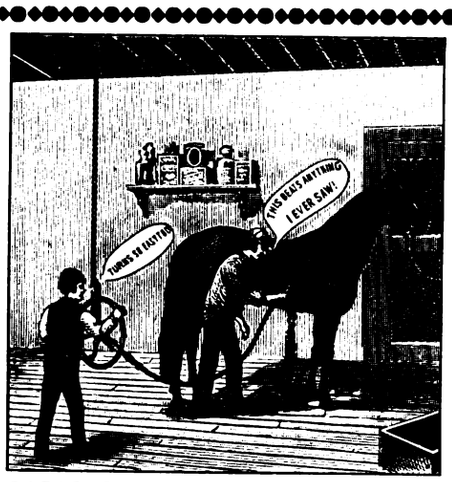
Steam, Electric, Foot and Hand Power

HORSE CLIPPING MACHINES.

Gillette Clipping Machine Co.,

110, 112 & 114 West 32nd St., New York.





THE NEW '98 CHICAGO CLIPPER.

THE MARVEL OF THE YEAR. RETAIL PRICE, $12.75.

The Greatest Clipping Machine in the World. Ask your Jobber about it. The day of the old-fashioned two-hand Clipper is past; the new "'98 Chicago" only weighs 35 pounds; can be set up in one minute, in any place by any one. It's a wonder.

TOILET CLIPPERS.

An entirely new line of High Grade Clippers from New Patterns by new machinery, in our new factory. Handsome Design, Beautiful Finish, Best Material and Workmanship. Each part absolutely interchangeable. Every Jobber should get samples and prices at once.

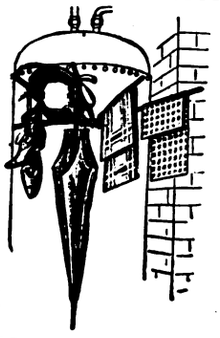
CHICAGO FLEXIBLE SHAFT CO.,

158-160 HURON ST., CHICAGO, ILL.

EUROPEAN AGENTS

HAMMACHER, DELIUS & CO., Hamburg, Germany.

PATENTS PENDING IN ALL COUNTRIES.



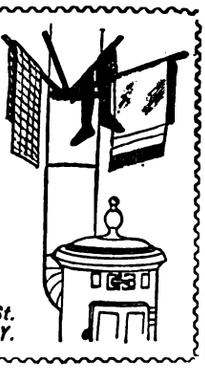
THE JEWEL BOILER DRYING RACK

Fits any Size Range Boiler or Stovepipe.

Retails for 35 cents.

TRADE PRICE, - $24. PER GROSS.

To introduce, will accept orders for 1 dozen or more at the gross price. Satisfaction guaranteed. . . . .



Gem Mfg. Co., 167 Chambers St. NEW YORK, N. Y.

Well Worth It.

I. B. Bolles, Wareham, Mass. [*Hardware and Farming Tools*]: Enclosed find check for $1 for HARDWARE for the year 1897. We think it is well worth it. . . . .

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HARDWARE BUYERS' DIRECTORY.

CLASSIFIED INDEX TO ADVERTISERS.

Agate Ware.
Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Agricultural Implements.
John H. Graham & Co., New York.
F. E Kohler & Co , Canton, Ohio.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., New York.

Anti-Friction Metal.
Magnolia Metal Co., New York.

Anti-Rattler.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Anvils.
Alfred Field & Co., New York.
Van Wagoner & Williams Hardware Co., New York and Cleveland, Ohio.

Apple Parers.
Goodell Company, Antrim, N. H.
Reading Hardware Co., Reading, Pa.

Architectural Iron Works.
Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

Arms and Ammunition.
Alfred Field & Co., New York.
Hartley & Graham, New York.
Remington Arms Co., New York.
Union Metallic Cartridge Co., Bridgeport Conn.
Waterbury Brass Co., New York.

Art Hardware.
Reading Hardware Co., Reading, Pa.

Awning Frames.
Stewart Iron Works, Cin'nati, O.

Babbitt Metal.
Bruce & Cook, New York
Magn lia Metal Co., New York.

Badges.
Schwerdtle & Siebert, Bridgeport, Conn.

Baking Pans.
Royal Polished Steel Roaster Co., Troy, O.

Barb Wire.
Fuller Bros. & Co., New York.

Basin Plugs.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Batteries.
Ohio Electric Works, Cleveland, Ohio.

Bearing Metal.
Magnolia Metal Co., New York.

Bells.
Bristol Bell Co., Bristol, Conn.
Dunbar Bros , Bristol, Conn.
John H. Graham & Co., New York.
N. N. Hill Brass Co., East Hampton, Conn.
New Departure Bell Co., Bristol, Conn.
Ohio Electric Works, Cleveland, Ohio.
Joseph Osterman & Co., Manayunk, Pa.

Bells, Electric.
See Electric Bells and Supplies.

Belt Dressing.
Jos. Dixon Crucible Co., Jersey City, N. J.

Belting.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting Co., Newark N. J.
See Rubber Belting.

Bench Stops.
Charles Morrill, New York.

Bicycle Stands.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.

Bicycles and Bicycle Sundries.
Aluminum Sign & Novelty Co., Columbus, Ohio
Bristol Bell Co , Bristol, Conn.
Brown-Lewis Cycle Co., Chicago.
Cushman & Denison, New York.
A. L. Deane & Co., Denver, Colo.
Dunbar Bros., Bristol, Conn.
John H. Graham & Co. New York.
N. N. Hill Brass Co., East Hampton, Conn.
Lane Bros., Poughkeepsie, N. Y.
Edward Miller & Co., Meriden, Conn.
Miller & Van Winkle, Brooklyn, N. Y.
New Departure Bell Co., Bristol, Conn.
New York Belting & Packing Co., Ltd., New York.
Geo. W. Nock, Philadelphia.
Ohio Electric Works, Cleveland, Ohio.
Joseph Osterman & Co., Manayunk, Pa
Plume & Atwood Mfg. Co., New York.
Pope Tube Co., Hartford, Ct.
Remington Arms Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Chas. J Stebbins, NewYork.
Union Heater Supply Co., Detroit, Mich.

Bicycle Step Ladders.
Bicycle Step Ladder Co. Chicago.

Blind Hinges.
Stanley Works, New Britain, Ct.

Bits.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.

Blacksmith's Outfits.
Holroyd & Co., Waterford, N. Y.

Blocks, Tackle.
See Tackle Blocks.

Bolts.
Brass Goods Mfg Co , Brookyln, N. Y.
Bruce & Cook, New York.
Isaac Church, Toledo, Ohio.
Franklin S. Miles, Philadelphia.
Union Nut & Bolt Co., New York.

Bone Black.
Geo. F. Taylor's Sons, New York.

Box Straps.
Quincy Hdwe. Mfg. Co., Quincy, Ill.

Braces.
Lancaster Machine & Knif Works, Lancaster, N. Y.

Brackets.
Atlas Mfg. Co., New Haven, Conn.
W. C. Heller & Co., Montclair, N. J.

Brass & Composition Castings.
C. H. Angus, Albany, N. Y.
Magnolia Metal Co., New York.

Brass, Manufacturers.
Waterbury Brass Co., New York

Brass, Perforated.
Harrington & King Perforating Co., Chicago.

Brass Signs.
Schwerdtle & Siebert, Bridgeport, Conn.

Brazing Machines.
Union Heater Supply Co., Detroit, Mich.

Bridges.
Berlin Iron Bridge Co., East Berlin, Conn.

Brushes.
Buchel Brush Novelty Co., New Orleans, La.

Buffing Wheels.
Divine Bros., Utica, N. Y.

Buggy Canopies.
Sprague Umbrella Co., Norwalk, Ohio.

Builders' Hardware.
Norwalk Lock Co., South Norwalk, Conn.
Russell & Erwin Mfg. Co., New York.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.

Bungs.
John Sommer's Sons, Newark, N.J.

Butcher Knives, Tools and Steels.
John Chatillon & Sons, New York.
Northampton Cutlery Co., Northampton, Mass.

Butts.
Bommer Bros., Brooklyn, N. Y.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Stanley Works, New Britain, Ct.

Butts, Spring.
Bommer Bros., Brooklyn, N. Y.

Calipers.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.

Canopies and Fixtures.
I. E Palmer, Middletown, Conn.

Car Sealers.
Charles Morrill, New York.

Carpet Sweepers.
Bissell Carpet Sweeper Co., Grand Rapids, Mich.; New York.

Carpet Stretchers.
R. W Montross, Galien, Mich.

Carving Tools.
Hammacher, Schlemmer & Co., New York.

Carriers.
F. E. Myers & Bro., Ashland, Ohio.

Casters.
Allerton, Clarke Co., New York.

Castings.
Aluminum Sign & Novelty Co., Columbus, Ohio.
C. H. Angus, Albany, N. Y.

Ceilings.
Canton Steel Roofing Co., Canton, Ohio.

Ceiling Plates.
Ferrosteel Co., Cleveland, Ohio.

Cellar Grates.
Hess, Snyder & Co., Massillon, O.

Cement.
Brown Bros. Montgomery, N. Y.
New York Belting & Packing Co., Ltd., New York.

Chains.
Bridgeport Chain Co., Bridgeport, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Checks.
Schwerdtle & Siebert, Bridgeport, Conn.

Cherry Stoners.
Enterprise Mfg. Co., Philadelphia.
Goodell Co., Antrim, N. H.

Chimney Ventilators.
Hess, Snyder & Co., Massillon, O.

Chucks.
Detroit Twist Drill Co., Detroit, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Clay Screens.
Harrington & King Perforating Co., Chicago.

Cleavers.
John Chatillon & Sons, New York.
Lancaster Machine & Knife Wks., Lancaster, N. Y.

Clippers, Horse and Barbers'.
American Shearer Mfg. Co., Nashua, N. H.
Chicago Flexible Shaft Co., Chicago, Ill.
Coates Clipper Manufacturing Co. Worcester, Mass.
Alfred Field & Co., New York.
Gillette Clipping Machine Co., New York.
John H. Graham & Co., New York.

Clock Springs.
Wallace Barnes, Bristol, Conn.

Closet Pulls.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Coal Screens.
Edward Darby & Sons, Phila., Pa.
Harrington & King Perforating Co., Chicago.

Coat, Hat and Ceiling Hooks.
Atlas Mfg. Co., New Haven, Conn.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Copper.
Bruce & Cook, New York.

Copper, Perforated.
Harrington & King Perforating Co., Chicago.

Cordage and Twines.
Samson Cordage Works, Boston.

Cork Pullers.
Enterprise Mfg. Co., Philadelphia.

Corkscrews.
Erie Specialty Co., Erie, Pa.
Alfred Field & Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Counterfeit Detectors.
Pelouze Scale & Mfg. Co., Chicago.

Crayon.
Jos. Dixon Crucible Co., Jersey City. N. J.

Cresting.
E. T. Barnum, Detroit, Mich.

Curled Hair.
Baeder, Adamson & Co., N. Y., Phila., Boston and Chicago.

Curry Combs.
John H Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
New York Stamping Co., Brooklyn, N. Y.

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Cutlery.

John Chatillon & Sons, New York.
Alfred Field & Co., New York.
Goodell Co, Antrim, N. H.
Hammacher, Schlemmer & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Northampton Cutlery Co., Northampton, Mass.
Patterson, Harral & Gray, N. Y.
Jos. Rodgers & Sons, Sheffield, England.
Seymour Cutlery Co., Holyoke, Mass.
Tuck Mfg. Co., Brockton, Mass.
J. Wiss & Sons, Newark, N. J.

Cutters, Fodder.

W. R. Harrison & Co., Massillon, O.
Silver Mfg. Co., Salem, Ohio.

Dampers.

Arcade Mfg. Co., Freeport, Ill.
Troy Nickel Works, Albany, N. Y

Dies.

Th. M. Hass, New York.
F. E. Myers & Bro., Ashland, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
Vieillard & Osswald, Brooklyn, N. Y.

Dog Collars and Muzzles.

Alfred Field & Co., New York.
Tower & Lyon, New York.
Union Hardware Co., Torrington, Conn.

Door Checks and Springs.

John Chatillon & Sons, New York.
Norton Door Check & Spring Co., Boston, Mass.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York.

Doors and Shutters, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

Drills.

Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Kearney & Foot Co., New York.
Silver Mfg. Co., Salem, Ohio.
Standard Tool Co., Cleveland, O.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Drills, Blacksmiths', Etc.

Silver Mfg. Co., Salem, Ohio.

Drying Racks.

Gem Mfg. Co., New York.

Drop Presses.

Miner & Peck Mfg. Co., New Haven, Conn.

Dumb Waiters.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Dynamos.

W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.

W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.

Elevators.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Elevator Screens and Guards.

Harrington & King Perforating Co., Chicago.

Emery.

Crescent Emery Mills Co., Oscawana, N. Y.
Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.

Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.

Crescent Emery Mills Co., Oscawana, N. Y.
New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.

Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.

J. L. Prescott Co., New York.

Enameling Ovens.

Union Heater Supply Co., Detroit, Mich.

Enamel Ware.

Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Envelope and Stamp Lubricators

Pelouze Scale & Mfg. Co., Chicago.

Expansion Bolts.

Isaac Church, Toledo, O.

Export Agents.

John H. Graham & Co. New York

Eyelets.

Waterbury Brass Co., New York.

Faucets.

Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Files.

Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.

Filteration Quartz.

New England Filteration Co., Boston.

Filters.

J. H. Seed, New York.

Fire Escapes.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Flat Ware.

See Plated Ware.

Flower Pot Stands.

E. T. Barnum, Detroit, Mich.

Fodder Cutters.

Silver Mfg. Co., Salem, O.

Foundry Riddles.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.

Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

Fruit Pickers.

Edward Darby & Sons, Philadelphia.

Fruit Presses.

Enterprise Mfg. Co., Phil'adelphia.
Logan & Strobridge Iron Co., New Brighton, Pa.

Furnaces.

Hess, Synder & Co., Massillon, O.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Garden Tools.

Alfred Field & Co., New York.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.

Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.

Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.

Stanley Rule & Level Co., New Britain, Conn.

Gears.

T. F. Welch & Co., Boston.

Generators.

W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.

H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.

Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.

Jos. Dixon Crucible Co., Jersey City, N. J.

Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster, Pa.

Grating, Iron.

Stewart Iron Works, Cin'nati, O.

Grinding Mills.

A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.

Cleveland Stone Co., Cleveland.

Gummers.

E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.

E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.

Gun Implements.

Hartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Hammers.

R. W. Montross, Galien, Mich.
The Scranton & Co., New Haven, Conn.
Troy Nickel Works, Albany, N. Y.

Hammocks.

I. E. Palmer, Middletown, Conn.

Handles.

Berger Bros. Co., Philadelphia.
Russell & Erwin Mfg. Co., New York.

Hangers.

Hess, Snyder & Co., Massillon, O.

Hangers, Coat and Hat.

Cronk Hanger Co., Elmira, N. Y.

Hangers, Door.

Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N. Y.
McKinney Mfg. Co, Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.

Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.

Arcade Mfg. Co., Freeport, Ill.
Berger Bros. Co., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles, Plainville, Conn.
Edgar Mfg. Co., Reading, Mass.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
Griswold Mfg Co., Erie, Pa.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
F. E. Kohler & Co., Canton, Ohio.
Geo. P. Marks & Co., New Orleans, La.
James F. Martin, Frankford, Phil'adelphia
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Gray, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Specialty Novelty Co., Lancaster, Pa.
T. F. Welch & Co., Boston.

Harness Snaps.

Covert Mfg. Co., West Troy, N. Y.

Hasps.

McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.

F. E. Myers & Bro., Ashland, O.

Hay Forks.

F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.

E. T. Barnum, Detroit, Mich.

Heaters.

Q. R. Meres Heater Mfg. Co. Norwalk, O.
Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co, New York.

Hinges.

Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.

Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hoisting Machinery.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Hones, Razor.

Alfred Field & Co., New York.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Hooks.

W. C. Heller & Co., Montclair, N. J.

Horse Nails.

Ausable Horse Nail Co, New York.
Capewell Horse Nail Co., Hartford, Conn.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.

F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Pipe.

F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

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New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.

Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.

F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Hotel Cooking Apparatus.

Bramhall Deane Co., New York.

Ice Tools.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Knapp & Pratt Mfg. Co., Geneva, Ohio.
Logan & Strobridge Iron Co., New Brighton, Pa.
Parker Ice Tool Co., Worcester Mass.

Ice Cream Freezers.

John H. Graham & Co., N. Y.

Insurance.

Mutual Life Insurance Co., New York.

Iron.

Bruce & Cook, New York.

Iron Castings.

C. H. Angus, Albany, N. Y.

Iron, Perforated.

Harrington & King Perforating Co., Chicago.

Jail Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.

C. H. Angus, Albany, N. Y.

Keys.

Geo. W. Nock, Philadelphia.

Kitchen Sinks.

Lalance & Grosjean Mfg. Co., New York, Chicago, Boston.

Kraut Cutter.

National Saw Co., Newark, N. J.

Lace Leather.

John C. Hagan & Co., Manchester, Va.

Ladders.

Bicycle Step Ladder Co., Chicago.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.

John H. Graham & Co., New York.
Edward Miller & Co., Meriden, Conn.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Chimneys.

Pariah & Unger, New York.

Lamp Stoves.

Plume & Atwood Mfg. Co., New York.

Lathes.

Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathing, Metallic.

George Hayes, New York.

Lawn Fountains.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.

Clipper Lawn Mower Co, Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Supplee Hardware Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.

F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Lead.

Bruce & Cook, New York.

Lead Pencils.

Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.

Berger Bros. Co., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.

Tower & Lyon, New York.

Lifters Automatic.

Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.

Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Geo. W. Nock, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Miner & Peck Mfg. Co., New Haven, Ct.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes.

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Ceilings.

Canton Steel Roofing Co., Canton, Ohio.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Milk Cans.

Buhl Stamping Co., Detroit, Mich.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Mirrors, Window.

Bayer & Co., Philadelphia.

Model Making.

Schwerdt'e & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster Pa.

Nuts.

Union Nut & Bolt Co., New York.

Office Railings

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.

Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.

Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.

Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.

Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Pails.

Standard Fibre Ware Co., Mankato, Minn.

Paints.

Canton Steel Roofing Co., Canton, Ohio.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

Pipe Cutters.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

Planes.

C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.

Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.

Tower & Lyon, New York.

Polish.

John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.

John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.

Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.

E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.

The Scranton & Co., New Haven, Conn.

Presses, Dies, &c.

Vieillard & Osswald, Brooklyn, N. Y.

Printers' and Lithographers' Blankets

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.

Stewart Iron Works, Cin'nati, O.

Pulleys.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.

Boston & Lockport Block Co. Boston and Lockport, N. Y.

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Chase Pump & Mfg. Co., Columbus, Ohio.
John H Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
Union Heater Supply Co., Detroit, Mich.

Punches.

Alfred Field & Co., New York.
Charles Morrill, New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.

C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Railroad Brasses.

Magnolia Metal Co., New York.

Rails, Barn Door.

McKinney Mfg. Co., Allegheny, Pa.

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Enterprise Mfg. Co., Philadelphia.

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F E Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.

Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.

See Traps.

Refrigerators.

Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.

P. J. Conroy & Co., Philadelphia.

Reels.

Hartzell Novelty Works, Alliance, Ohio
Philadelphia Lawn Mower Co., Philadelphia.

Registers.

Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.

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A. L. Deane & Co., Denver, Colo.
Root Bros. Co., Plymouth, Ohio.

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Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
C. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.

Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

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Berger Bros. Co., Philadelphia.
L. D. Berger, Philadelphia.
Canton Steel Roofing Co., Canton, Ohio.

Roof Trusses, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

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N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.

N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.

Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Stephens & Co., Riverton, Conn.
Union Nut & Bolt Co., New York.

Sad Irons.

Enterprise Mfg. Co., Philadelphia

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Tower & Lyon, New York.

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Samson Cordage Works, Boston.
Tower & Lyon, New York.

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Smith & Egge Mfg. Co., Bridgeport, conn.
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Rufus E. Eggleston, New York, Philadelphia, Chicago.
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Reading Hardware Co., Reading, Pa.

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Henry Disston & Sons, Philadelphia.
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John Chatillon & Sons, New York

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Alfred Field & Co., New York.
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Charles Morrill, New York.

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See Trucks, Stove.

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Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

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Stewart Iron Works, Cin'nati, O.

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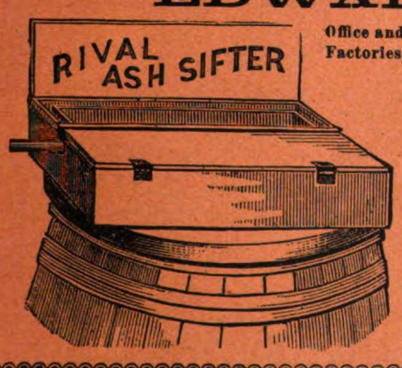
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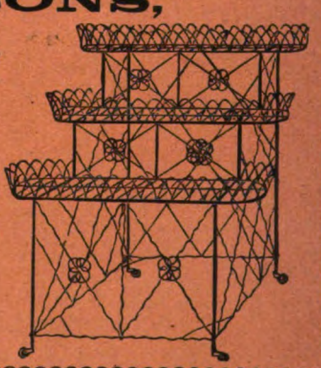
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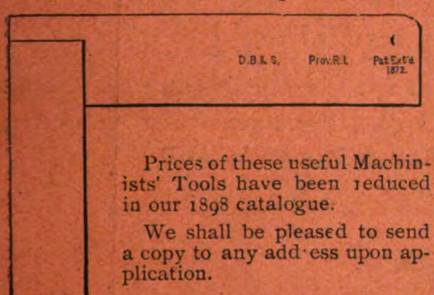
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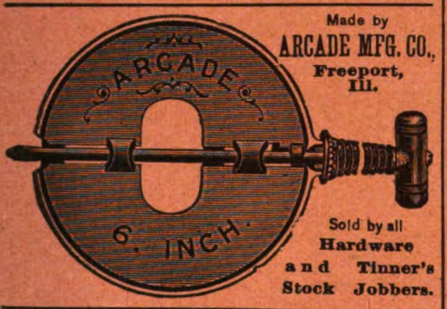
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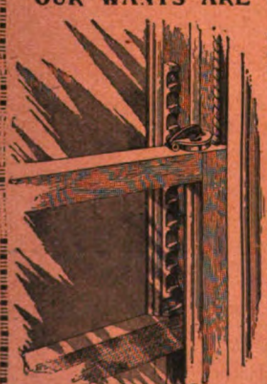
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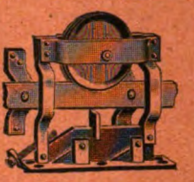
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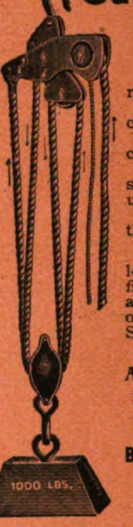
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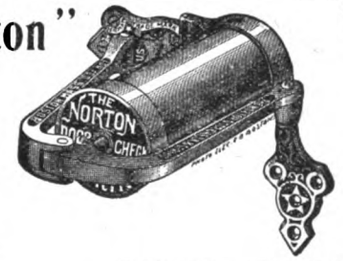
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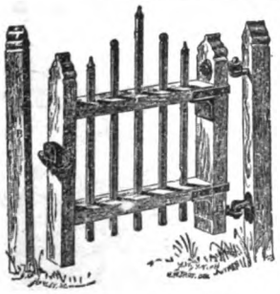
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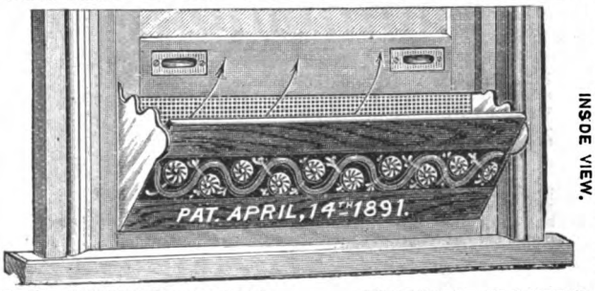
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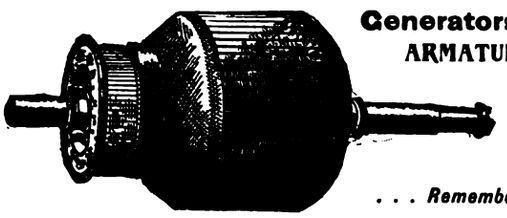
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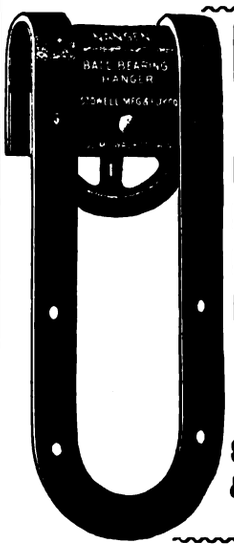
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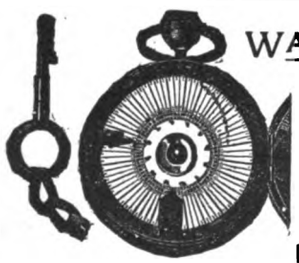
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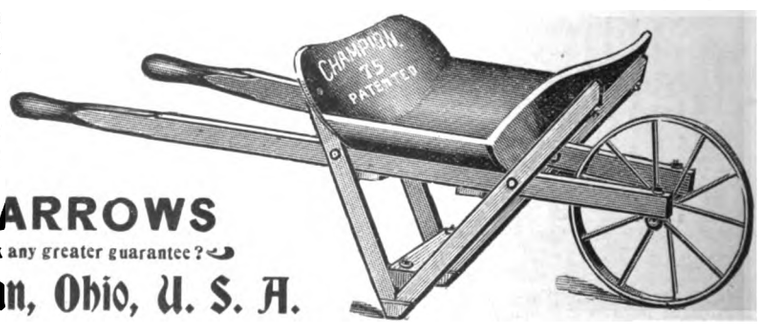
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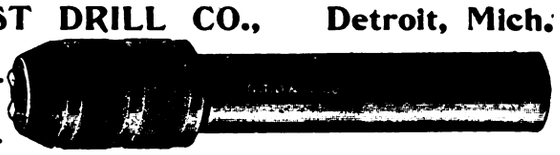


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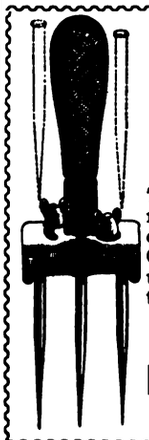
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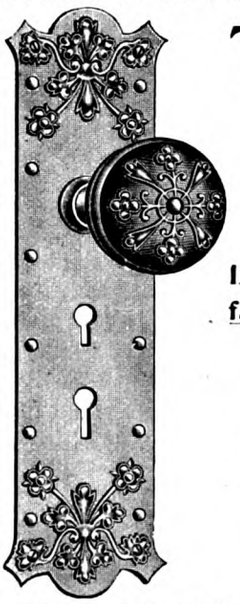
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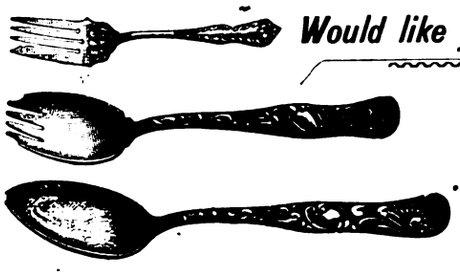
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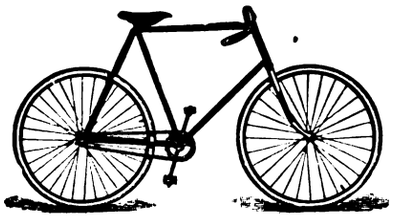
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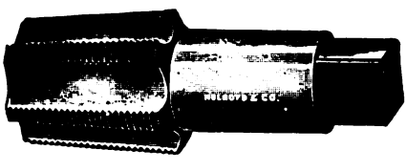
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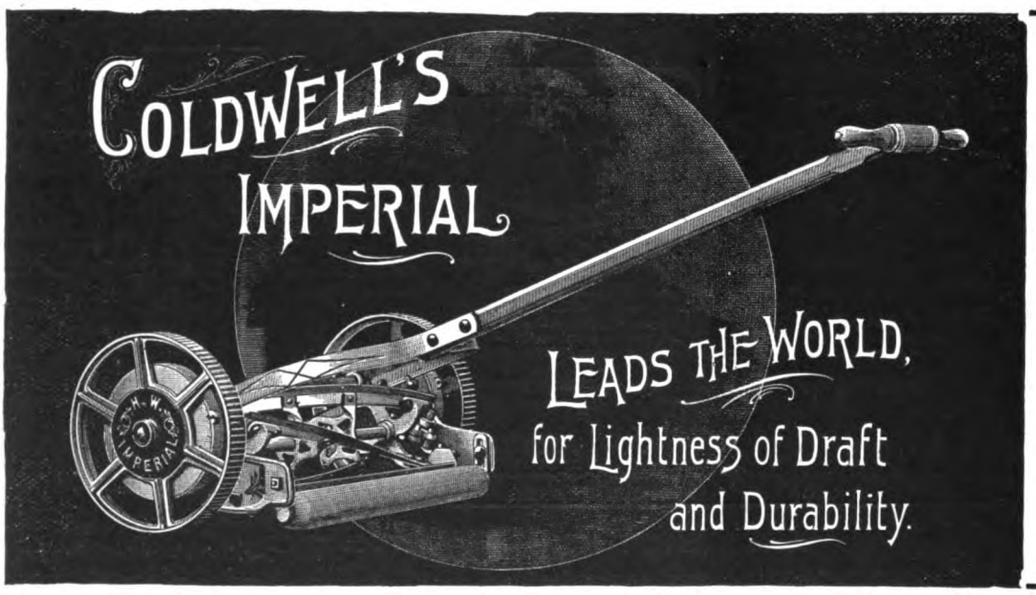
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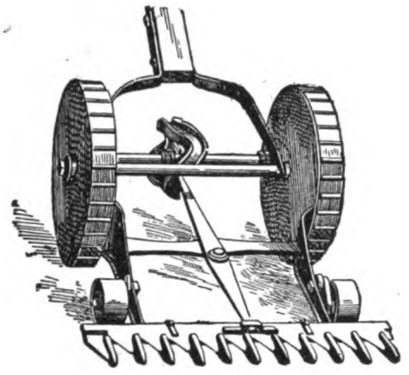
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That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**

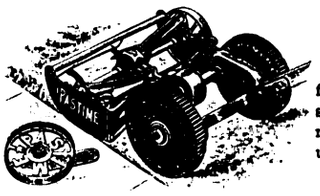


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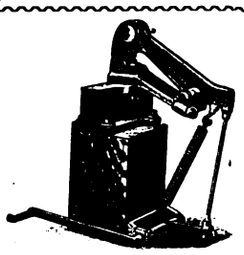
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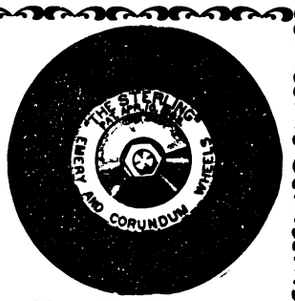
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We have filled the wants of others in this line, why not yours?

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IT'S IN THE TEETH.

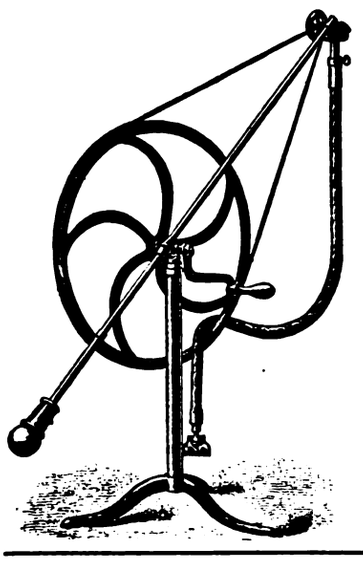
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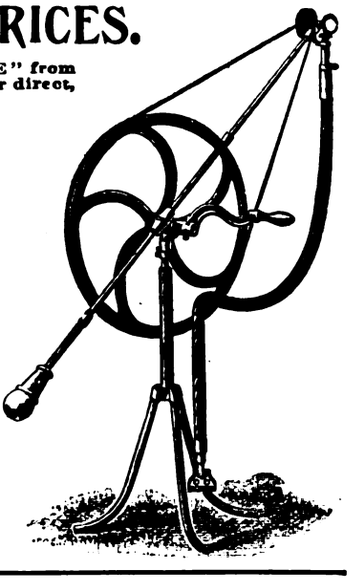
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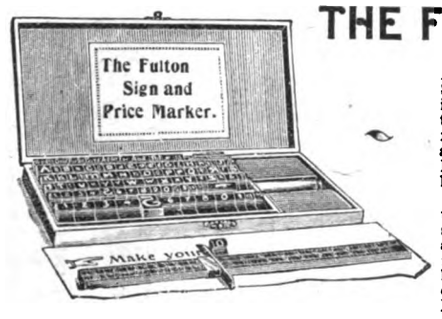
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110, 112 & 114 West 32nd St., New York.





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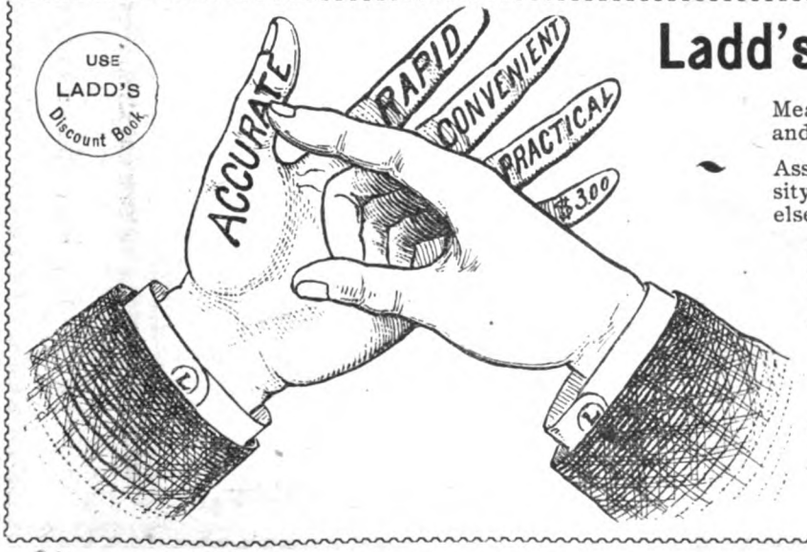
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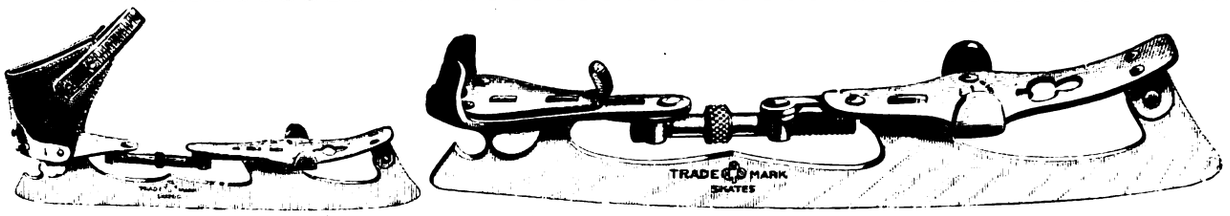
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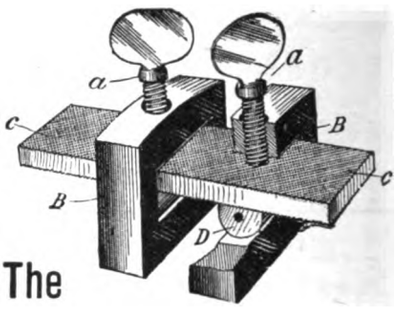


UNION CLUB SKATE.

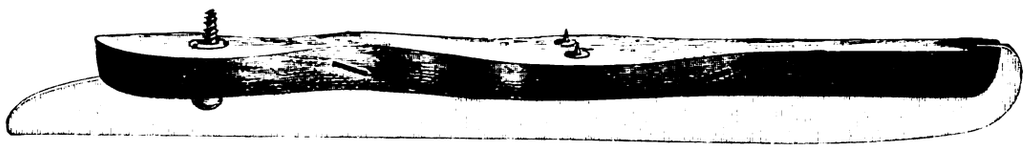




HOCKEY SKATES.



The Union Skate Sharpener.



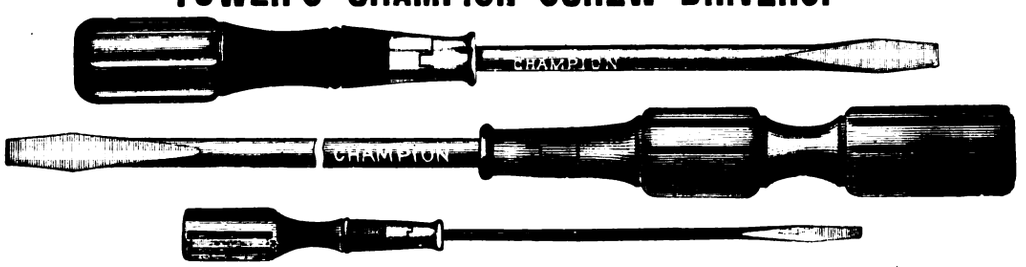
DONOGHUE RACING SKATE.

...MANUFACTURED BY **UNION HARDWARE CO.,**

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

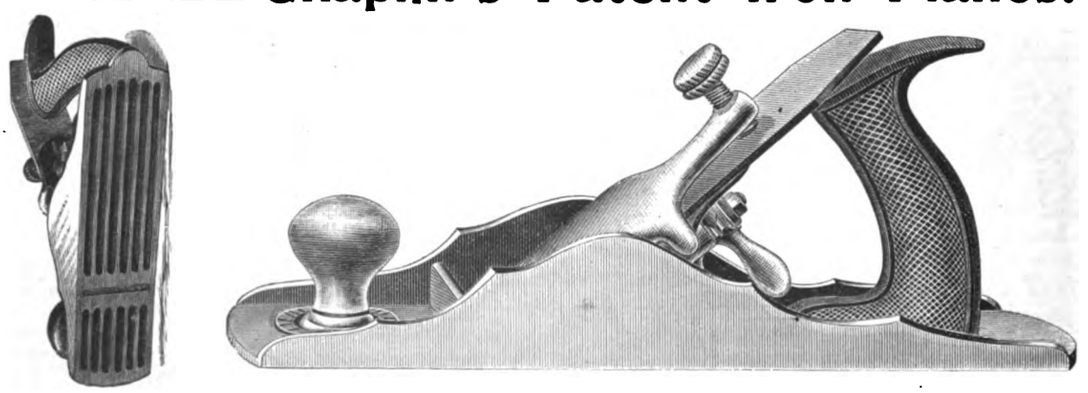
CARPENTERS and MACHINISTS' TOOLS.

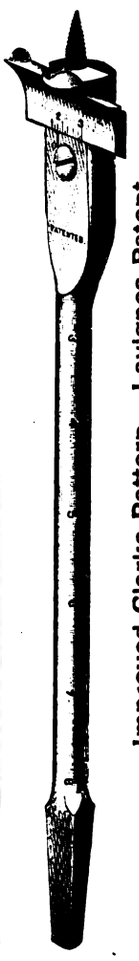
TOWER'S CHAMPION SCREW DRIVERS.



See that the word "CHAMPION" is on each Screw Driver.

Chaplin's Patent Iron Planes.





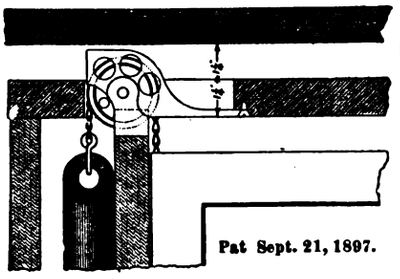
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TOWER & LYON,

95 Chambers St., New York City.

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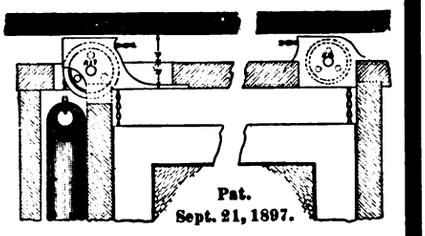
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No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

Architects will note accompanying cuts. They represent 2½ inch pulleys and only require 2½ inches head room from top of sash.

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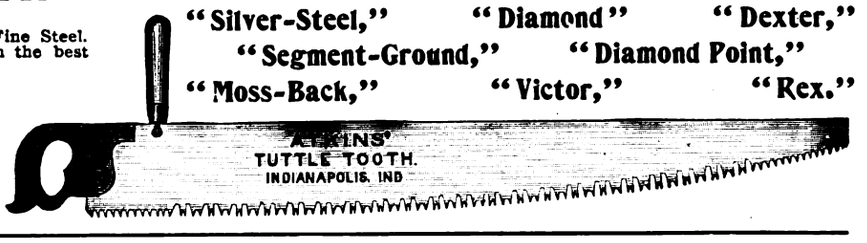
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WE ARE THE LARGEST PRODUCERS OF STEEL BALLS IN EXISTENCE.

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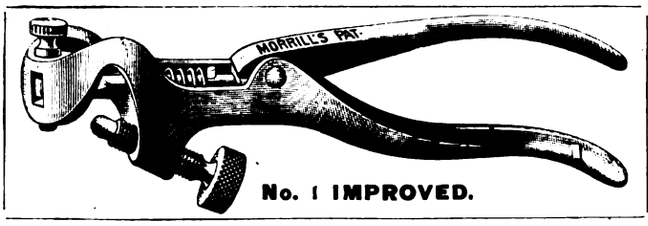
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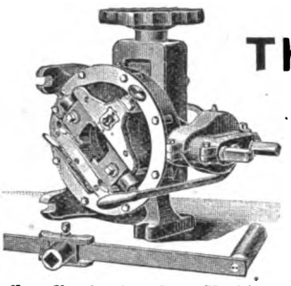
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Succeeding BERGER BROS., January 3 1898.

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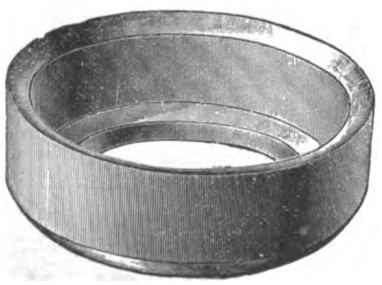
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DUMB WAITERS,

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... AND ...
SPEIDEL'S ECONOMIC SAFETY HOISTS.



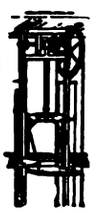
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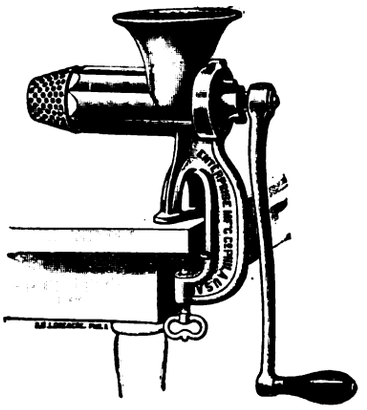
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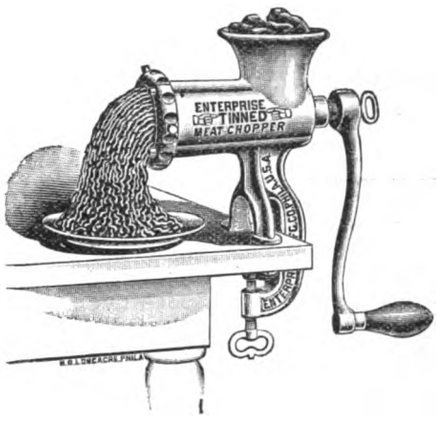
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No. 10,	" "	3.00
No. 20,	" "	5.00
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Consult your Jobber

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New York Branch, J. C. McCARTY & Co., 10 Warren Street

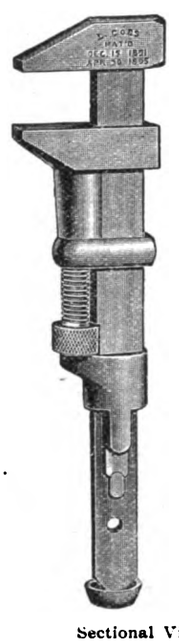
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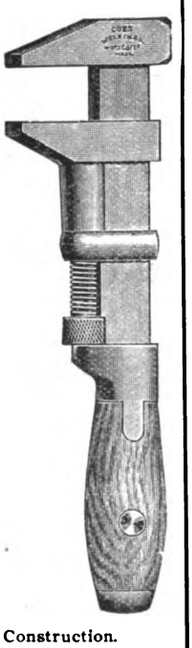
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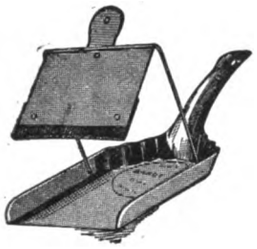
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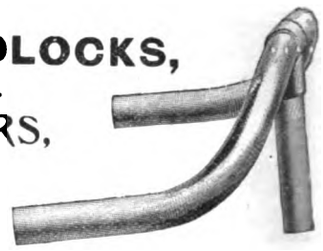
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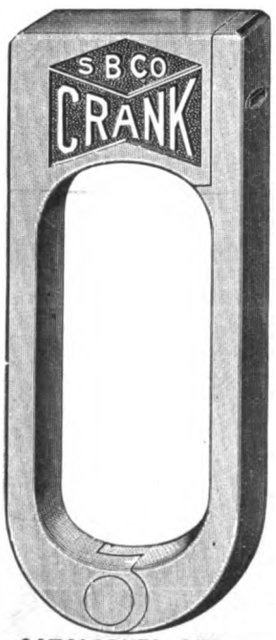


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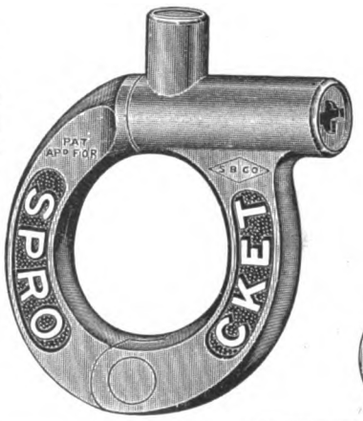
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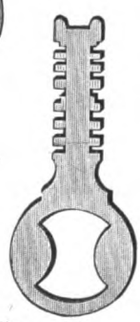
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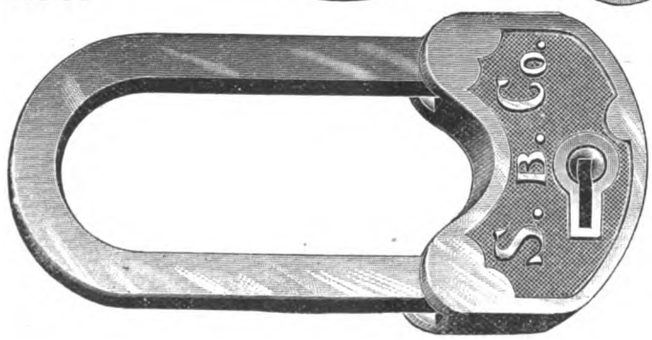
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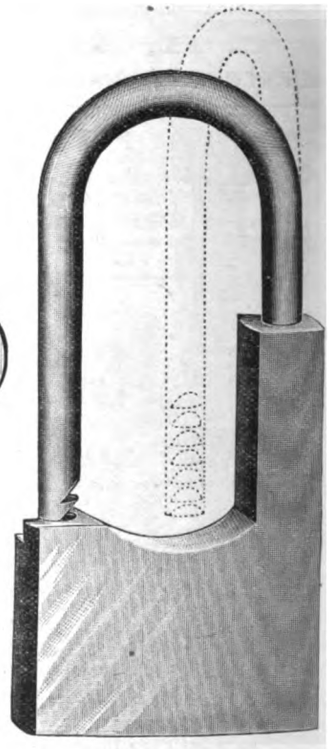


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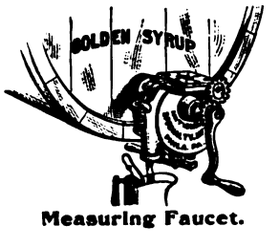
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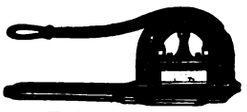
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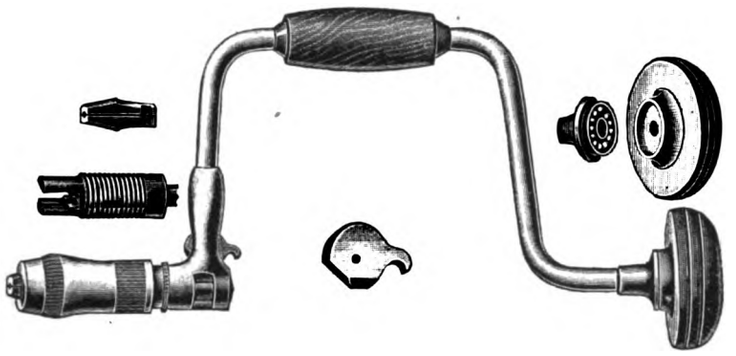
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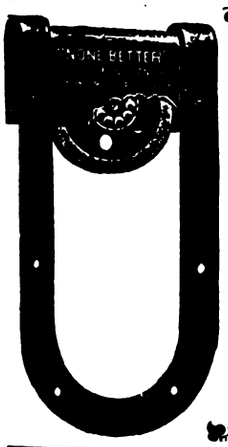
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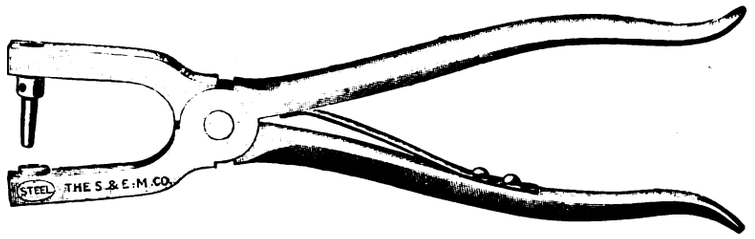
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NEW YORK. CHICAGO.

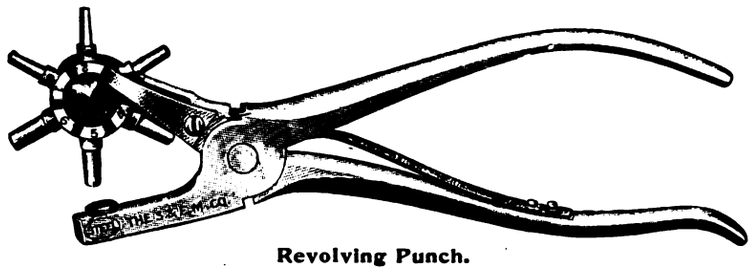
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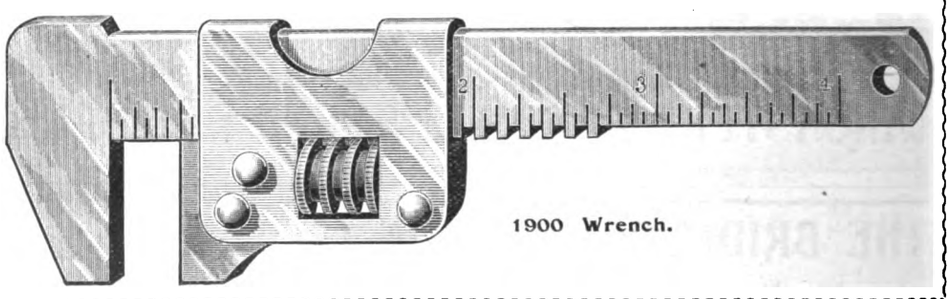
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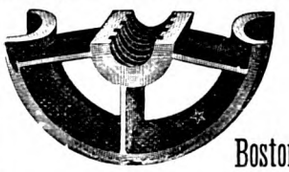


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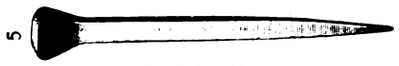


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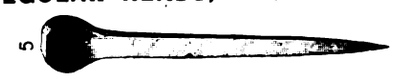
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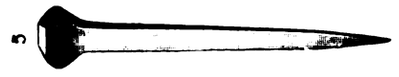
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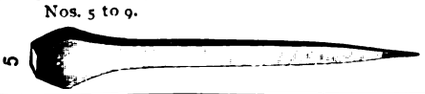
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HARDWARE

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HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

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L. E. MITCHELL, - - President.
JAMES H. KENNEDY, - Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRED. A. CATON, - - Asst. Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

A Hardware Association Number of "Hardware."

On April 10th, 1898, *Hardware* will celebrate the eighth anniversary of its birth.

That there was a large and profitable field awaiting development by a first class Hardware journal, that should devote itself exclusively to the Hardware trade, has been demonstrated by the success which has crowned the efforts of *Hardware* from the initial number.

Despite the fact that recent years have not presented such conditions of prosperity as we all could have wished, *Hardware* has developed and extended its circulation and influence, until to-day it is read and quoted in every quarter of the land, and is a welcome visitor to the commercial marts of the entire globe. It was the purpose of those who founded the journal, and is still the high aim of those to whose hands it is yet entrusted, to keep it upon the highest possible plane of trade journalism; to make it clean, respectable and useful; to see that it properly represents the great Hardware interests of this country; that it gives the news, and all the news, and advocates such measures as best represent the great interests of which it is an exponent. That it has succeeded in a large measure in fulfilling these conditions is evidenced by its success, and the loyal support which it has secured at the hands of the trade everywhere—manufacturers, jobbers, retailers and every other line of labor which is in any way, directly or indirectly, connected with the Hardware trade.

We take occasion at this moment to extend the most earnest thanks of *Hardware* to all who have in the busy eight years past, assisted it in the accomplishment of this purpose.

Hardware has certainly used its best effort for the promotion of neighborly friendship and good fellowship among the members of the trade. It has given freely of its space for the dissemination of news in regard to the great Hardware organizations which, since 189 , have become so grand a force for good in the Hardware world. It has by its voice, encouraged in every possible way the creation of organizations having for their purpose the bettering of trade conditions, and has been an enthusiastic supporter of every movement having for its purpose the good of the trade.

It occurred to us that the celebration of our anniversary of April 10th, 1898, could be made of signal usefulness to the trade everywhere, by the publication of a SPECIAL HARDWARE ASSOCIATION number.

It is our purpose, therefore, with that issue, to present a mass of valuable information in regard to the beginning and growth of the great forces or organizations which have accomplished so much in the way of acquaintance, better business methods, and the cultivation of fraternal regard. These sketches of the rise and growth of the organizations will be accompanied by portraits of various officers of the same, special articles from the pen of men who have been instrumental in the founding of these societies, and much else of interest in connection therewith. We feel that the time has come when the various steps which led to the creation of these forces within the Hardware trade should be gathered and properly placed upon record, and more especially as the information can now be secured at first hands, from those who assisted in this work.

We ask the hearty co-operation of Hardwaremen everywhere in this laudable effort, and our experience of the past leads us to firmly believe that the same will be given with a generous willingness which shall be very effective in its results.

Editorial Trade Review.

By comparison with previous years, the business of the month of January throughout the country has been of an extremely encouraging character and is considered entirely satisfactory and in line with the most hopeful views of the year's trade and traffic.

In the way of prices, manufacturers do not claim they have done much more than stiffen the most favorable quotations at which sales have been made during two months past. The dealers who are in condition to give the orders for stock, which are so essential for a proper start on the requirements and demands for a healthy spring trade, still labor under the belief that a continuance of the low prices so unprofitable in the past should form the basis of a deal for the future. As the manufacturers have no such intention and desire, they are virtually compelled to entertain propositions for combining with other makers in order to sustain a list of prices that will afford a fair margin of profit without discouraging spring orders.

More heavy goods, in which labor enters but slightly,

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by comparison, are being contracted for than higher grades of goods more expensive in character and about which the relative size of a season's stocks has to be figured more closely.

The market has been well kept up in tone, and no general weakness is apparent. The condition of the general Hardware stocks throughout the country would indicate a large demand was possible for improved tools and other mechanical appliances; the gradual expansion of better conditions of local affairs, in the way of steady employment for the toiler, the weakening of influences forming and sustaining strike conditions, the willingness to keep employed and trust in the future for improved financial advancement—all these have a bearing upon the business of 1898 and bring about the steady feeling of confidence which inspires our present fervent hopes and strengthens our faith in the integrity of our industrial growth. The increased strength shown by the wire-nail market is reflected in other lines that are close to the raw material and will lead to a general improvement of all other and similar lines. Too many goods have been disposed of during the dull periods of trade the past year or two without sufficient attention being given to the profit side of the transaction, the principal wish being either to keep a customer from falling into a competitor's hands or else to move a stock that had already passed the point of a growing surplus. Indications point to a larger distribution of builders' Hardware during the present season, and while the large and widely varying list of fine finishes in this most artistic line of goods prevents the dealer from stocking up too largely, the manufacturers, it is believed, are satisfied to have it so, as, with increased facilities for finishing up stock in accordance with "rush" requirements on special demands, it enables the dealer to solicit any specifications feeling that but little delay can possibly result in supplying all that may be wanted.

Considering how great a feeling exists in the trade inimical to the sale by department stores of Hardware specialties, the idea is well defined in the minds of the older dealers that any inroads upon the general business of the well organized Hardware store will be scarcely felt, except in the way of well advertised specialties, when compared with previous conditions of trade. The legitimate business of the Hardware dealer that requires skill and experience in its distribution will never form an adjunct of the department store. The admission of this fact would seem to make a scale of better profit desirable on this class of business, while at the same time such novelties and specialties now in the stock of every department store in the country should be sold at as close figures as is made prominent by those hustling competitors.

Mr. Pike as an Editor.

E. Bertram Pike, treasurer of the Pike Mfg. Co., Pike Station, N. H., whose genial personality is encountered from time to time in every corner of the country where oil-stones and the like are used, has found leisure in the midst of a busy business career, to divert himself by the preparation of a handsome volume devoted to the "Centennial Anniversary and Reunion of Haverhill Academy, Haverhill, N. H.," where Mr. Pike obtained the foundation of a liberal education. The result is a handsome book of near 200 pages, bound in morocco, illustrated with portraits and views, and filled with matter which is of exceeding interest, naturally, to the ex-students of that old educational institution, and it also well repays an hour's examination on the part of anyone who is interested in educational matters. Mr. Pike has shown great judgment and an unsuspected editorial skill in the preparation of this work, as each part seems to fit into the other in an admirable and complete manner. There has been no lack of expense connected with the preparation of the engravings, and the portraits, all of which reflect skill upon the artistic sense of the editor and his staff of assistants.

Mr. Sickels on the Situation.

We find in the *New York Times* of a recent date, the following interesting remarks in regard to the Hardware business of the country from Robert Sickels, of the wholesale Hardware house of the Sickels & Nutting Co., New York:

"The progress made in this line of business during the last twelve months stands out in striking contrast with that of the year before. There has been much improvement, and the outlook for the present year is quite encouraging. A country does not immediately recover from the effects of long depression, and it is not to be expected that business will be seen in the fullness of activity all at once.

"Western purchases of all kinds of Hardware goods have been unusually large this fall. People engaged in agriculture have added considerably to their supplies for use in field work, causing much activity in manufacturing of this kind. The great outpouring of Western orders was not an immediate consequence of the improved crop returns. It has been gradual and steady. There is evidently a further large purchasing to be done by the farmers, and it will be made in the near future.

"With the great impetus given to business by the wheat-selling movement there were anticipations of a vast amount of purchasing from Eastern points as well. It has not come up to what was anticipated, but, of course, the supplies have not run down so low in the East as in the West, where economizing in such things was the rule in recent years. In the coming season a better demand is looked for in all Hardware commodities.

"Undoubtedly there is an improvement in the tone of general trading and the existence of a confidence that counts for much. Depressing talk is no longer heard, and with conditions as at present, it is highly probable that this will be a prosperous year for Hardware manufactures. Healthy and satisfactory progress has thus far been effected, and we look for a larger future business."

Harvey Hubbell, Bridgeport, Conn., has issued a very handsome catalogue of his Machinery and Tools and Brass Machine Screws. It is thoroughly illustrated, containing prices, etc.

Hardware Terms Illustrated.



A HARD "JOB."

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President and Vice-President.

At a recent meeting of the Philadelphia Hardware Merchants' & Manufacturers' Association, new officers for the year were elected, and were practically installed at the recent annual dinner, which was reported in full in the last preceding issue of *Hardware*. The president, whose portrait we take pleasure in presenting in this connection, cer-



JAMES H. RITTER, PRESIDENT.

tainly needs no introduction to the Hardware trade of America. James H. Ritter has so thoroughly identified himself with everything relating to the trade, that he is personally known wherever the name of the Biddle Hardware Co. has been carried—and it is needless to say that there is no part of America into which the fame of this organization has not penetrated.

Mr. Ritter illustrates in his own person the advancement which can come to the American youth, who starts out in life with those qualities so essential to success—a natural ability, backed by industry and determination. While Mr. Ritter is, so far as years go, still a young man, he has had a practical experience in the Hardware trade that has fitted him for the position to which he has been chosen. While still a young boy, he commenced business with French, Richards & Co., wholesale druggists of Philadelphia, and was with them one and a half years. On January 1, 1876, he entered the employ of the Biddle Hardware Co., literally at the bottom, as his first labors consisted in sweeping out the cellar of the store. While he has not yet worked his way to the top of the building, he has certainly worked himself pretty close to the head, in an official sense, as he is to-day the general manager of this great organization. In the twenty-two years that have seen him connected with the company, he has done about everything that can be done in connection with a Hardware establishment, except to travel on the road, and this all-around experience has fitted him admirably for the duties which now fall to his hands. Mr. Ritter served for two terms of two years each, as vice-president of the Hardware Merchants' & Manufacturers' Association, and as was suggested by ex-President Disston, who introduced him at the recent dinner, he has served an apprenticeship that guarantees great success at the head of this famous Hardware organization.

At the same meeting, an admirable selection for vice-president was made in the person of Hugh McCaffrey, the president of the McCaffrey File Co., of Philadelphia. While Mr. Ritter ably represents one branch of this Association, Mr. McCaffrey is an exponent of the other branch, having been for many years identified with the manufacturing interests of this country. Mr. McCaffrey commenced business life by serving an apprenticeship in file-making in Philadelphia. On January 13, 1863, he started in business for himself, and some time later took into partnership his brother John, the firm name being McCaffrey & Bro. Business was continued under this name until July 1, 1889, when the firm incorporated under the laws of Pennsylvania as the McCaffrey File Co. Hugh McCaffrey was elected president, and has continued to hold this office since, being re-elected each year without opposition.

Mr. McCaffrey has taken a deep interest in the Hardware Merchants' & Manufacturers' Association, and at the recent meeting, as stated above, he was elected to the position of vice-president. He has been, and is still, a leading spirit in making and continuing that feeling of good fellowship which exists between the merchants and manufacturers of Philadelphia; is a consistent and bitter enemy of trusts and combines, and has certainly done his share in pushing with energy the reputation of American files abroad.

The Association is to be congratulated on having secured a president and vice-president who stand so high in the respect and affection of the trade.

It is needless to introduce, even by photograph, the secretary and treasurer of this Association to the Hardware trade of America. The name of T. James Fernley is known



HUGH McCAFFREY, VICE-PRESIDENT.

wherever saws buzz, files rasp, lawn mowers cut, axes chop, and dog collars are worn.

Messrs. Bayer & Co., manufacturers of window mirrors, who were formerly at No. 28 North Thirteenth Street, Philadelphia, Pa., have removed to No. 19 North Juniper Street, which is opposite the city hall. They will here have more space, and have added new improved machinery for the manufacture of the Perfection Window Mirrors.

The Boston 20th Century Store, No. 537 Canal Street, New Orleans, La.: "We are overwhelmed with catalogues and correspondence, the greater portion of which is due to *Hardware*."

The first bank was established in Italy, A. D. 808, by the Jews.

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The Sportsmen's Exposition of 1898.

When the National Sportsmen's Association was organized, there were some, of course, who questioned the successful carrying out of the very ambitious plans which its sponsors and exponents had in mind. The success of the first annual exhibition, held in Madison Square Garden, was such as to guarantee that the Association had come to stay, and that this annual exposition had become one of the fixed events of the metropolis. Each year since then has seen a gathering which has simply strengthened the Association in the affections of the public and of the trade everywhere, and the fourth annual exposition, which recently closed in the Madison Square Garden, was certainly equal in all respects to those which had preceded it.

It is impossible to attempt a full description of everything that was there to be seen. It is simply necessary to say that there was nothing in the line of sporting goods, including bicycle exhibits, which was wanting. The musical programme of each day added to the attractions, while the various tournaments open to shooters, anglers, bowlers, etc., formed a new feature which was very attractive and successful in its results. The building was very handsomely decorated with flags and pennants, and a great many souvenirs were given away by the exhibitors.

While it is impossible to speak in detail of the various exhibits, a special mention of several will be of interest. A very attractive feature was that presented by the E. I. Du Pont De Nemours & Co., who exhibited a pyramid of packages showing the various products of that company, in a very attractive shape. Among these were the containers for the different kinds of powders, with samples of powder in crystal glasses; also powders for rifles, shotguns and blasting; gun cotton, prismatic powders for army and navy guns, and many other specialties.

The Cleveland Target Co., of Cleveland, Ohio, showed a sample of the Magau Trap, which is an automatic magazine trap for throwing bluerocks for trap shooting. They also exhibited samples of bluerock pigeons for target shooting. Great interest among sportsmen was excited by the Expert and Expansion Traps, which were fitted with Paul North's famous electric pulls.

The Laflin & Rand Powder Co. showed a working model in miniature of one of their powder-producing plants, which displayed in detail the many buildings which are required for the conduct of their business. The danger which surrounds the manufacture of powder is always a subject of interest and curiosity by sightseers, and this exhibit in spaces 5 to 7, was one of the most attractive of the Exposition.

The Remington Arms Co. showed a large number of Remington guns, which included a full line of their Automatic Ejector and Non-Ejector Hammerless Guns, hammer shot guns, in their various styles of manufacture, and a full line of military small bore and large calibre rifles. With these were also exhibited parts of the various guns and rifles, and samples of the execution done by the same at long range.

The Bridgeport Gun Implement Co., in space 78, exhibited a handsome and attractive line of golf goods. Their booth was prepared to resemble a putting green, which was adorned with natural birch trees, with evergreens as a setting.

A very attractive exhibit was that of I. E. Palmer, of Middletown, Conn., who occupied spaces 123-125, showing his hammocks and mosquito net canopies, which have made their way into every corner of the country.

The Union Metallic Cartridge Co., Bridgeport and New York, occupied spaces 135-142, with as fine an exhibit in their line as could possibly be gotten together. The very many products of this old and famous company were shown, consisting of paper shot shells, metallic ammunition case, wads, primers, etc,

In addition to the regular exhibit of sportsmen's goods, there were many scenes of attractive beauty, reproducing the actual business of hunting and fishing, and illustrating by attractive object lessons, the pleasure that can be secured from the rod and the gun and other out-door sports. Many rare specimens of the taxidermist art were to be seen, while sporting craft of all sorts, from the tender to the sneak boat, were seen on every hand.

The exhibition of bicycles was large and attractive. There were exhibits of miniature hunting and fishing camps and a log cabin of spruce logs, a birch bark wigwam, and a realistic reproduction of a hunting camp fire, all of which were accompanied by real live Maine guides, who are not creatures of the imagination, but who make it their business to assist the world in penetrating the forest recesses of that wonderful State.

The close of this fourth annual exposition guarantees that the Sportsmen's Association has come to stay, and that there will be an exposition in every year of the "sweet bye and bye."

A Remarkable Showing.

The Magnolia Metal Co., during the last three or four months, have received through the mails nearly 3000 testimonials on Magnolia Metal, or to be exact, they received 2827 distinct testimonials. These were received from every part of the United States and Canada, and were sent in by railway companies, steamship companies, rolling mills, iron and steel manufacturers, of every kind and description; machinists, paper mills, cotton mills, woolen mills, woodworking establishments of all kinds, and practically every class of mechanical industry that can be mentioned.

These testimonials came to them in response to a circular letter sent out to all the mills and manufacturers of the United States and Canada, accompanied by a fifteen-inch rule sent with their compliments, and simply asking if they were users of Magnolia Metal and, if so, what was their experience. A very small percentage of concerns so addressed ever make response, and taking the number of replies actually received, giving testimony as to the superiority of Magnolia Metal, it has been estimated that at least 100,000 concerns in the United States and Canada are to-day using Magnolia Metal.

The above statement is a very remarkable one, and shows the wonderful success that the Magnolia Metal Co. have had during the past ten or twelve years in introducing their metal among the mills, manufacturers, jobbers and dealers of the United States and Canada, and their trade is equally as large in foreign countries. This shows what can be accomplished by having a good article well exploited and thoroughly advertised.

Among the extensive improvements now being made by the Benjamin Atha & Illingworth Co., Harrison, N. J., is a new steel building known as the tower building. This is 30 feet square and about 40 feet high. Thirty-five feet above the ground is a circular trolley track carried by the roof trusses. The framework of the building is of steel throughout, and the siding and roofing of corrugated iron. The complete contract for furnishing and erecting this building has been given to the Berlin Iron Bridge Co., East Berlin, Conn.

As will be seen in a notice on page 59 of this issue, there is a rare opportunity for some one who wishes to enter the Hardware trade. W. B. Carey, Salem, Ohio, offers one of the finest rooms in Ohio, finished specially in hardwoods for the Hardware trade, and which has been used for such for twenty-six years. Alterations will be made so as to include other lines in the same direction, if desired.

HARDWARE'S "Prices Current" are reliable.

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THE NEW ENGLAND HARDWARE DINNER.

The New England Iron & Hardware Association gave their annual dinner at Young's Hotel, Boston, on the evening of Monday, January 31, 1898. The main dining-room was comfortably well filled by the Association and their guests, numbering over 100, and a more dignified body of men it would have been difficult to have got together. Many of them were reverend seigniors who have grown gray over the vicissitudes of this important industry represented by a variegated scale of discounts on standard goods, which the proverbial Philadelphia lawyer would give up in despair. And yet expert honors are borne meekly by many veterans in the business, whose names, surrounding the diagram of the dining tables shown on another page, will be found familiar reading by many manufacturers and their representatives, unable by a combination of circumstances from being there *in propria persona*.

The night, atmospherically, was the worst which Boston has known for thirty years. A severe snow storm, with an accompaniment of a fifty-mile-an-hour wind, had delayed trains on every road, brought down telegraph and telephone wires in wholesale quantities, and ruled the situation with a rod of iron. The members who had profited by previous experience, and upon leaving home in the morning, left their return before the succeeding evening uncertain, were throwing a bouquet or two at themselves for their forethought, which enabled them to take an evening of solid enjoyment rarely experienced under similar outside influences.

Previous to the dinner proper, a reception lasting nearly an hour was held in the parlors of the hotel, where the guests enjoyed the opportunity of being introduced by President Carter to the distinguished Senator, William P. Frye, of Maine, the orator of the evening. The old and new members were brought more closely together, and a feeling of *comraderie* and congeniality was established which bore fruit later in the evening.

The Reception Committee, composed of Samuel A. Bigelow, Charles F. Dowse, A. M. Wiley and Hayward C. Dodge, largely contributed to the ease and comfort of the arriving guests, and were almost ubiquitous.

The excellent cuisine of the widely esteemed Young's Hotel was put to the test, and the following menu amply demonstrates how capably the management responded:

MENU.

Oysters on Deep Shell.

Cream of Celery aux Croutons. Consomme, Dauphine.

Chicken Halibut, a la Toulouse. Potatoes Hollandaise.

Roast Philadelphia Capon, Puree of Chestnuts.

Saddle of Mutton.

Griddled Sweet Potatoes. Peas. Puree of Spinach.

Croquettes of Sweetbreads, Jardiniere.

Bouchee of Oyster Crabs, a la Maryland.

Frozen Tom and Jerry.

Quail on Toast. Escarole Salad.

Frozen Pudding. Klondike Souffle.

Fruit. Cheese. Coffee.

Standard Pale. Haut Sauterne. Pomery and Greno Sec.

Young's Hotel, Boston, January 31, 1898.

There was no set course of toast-giving and speech-making planned, as the local talent are not kept, as they should be, constantly in training for just such events.

Upon calling the members to order while standing beside their chairs preparatory to making an onslaught upon the viands provided, the president of the Association, Leon C. Carter, Esq., requested that all present should join in singing that grand old New England hymn, "America," which was done, and every voice present did its share in enthusing over the

"Land where my fathers died,
Land of the pilgrims' pride,"

every one of the four verses being rendered in a manner worthy of grand opera.

The Rev. F. E. Hamilton being called upon for Divine blessing upon the feast provided, responded in a brief but feeling manner. The banquet being next in order, was at once proceeded with.

We present elsewhere a diagram showing the arrangement of the tables and the location of the members and their guests.

After the dinner had been happily disposed of and cigars passed around, the speech-making of the evening was begun by President Leon C. Carter, who said:

I shall not impose on the patience of the gentlemen present this evening with any lengthy remarks, notwithstanding my fondness for oratorical efforts, and of which I have been reminded at the last two or three meetings of the directors, as I feel personally, and am quite sure I express the sentiments of all present, almost impatient to hear from our distinguished guests.

The past year has been one full of anticipation, but in the case of many, has failed of large realization. We enter 1898, however, with a different outlook. Nature has never been more bountiful in her gifts. "Gold, gold from the mountain, and gold from the mine."

The toiler in both field and mine has been blessed with the full fruitage and reward of his efforts. At no previous period in our history have the farmers received so large a percentage of their labor as in the past two months. Furthermore, in view of the fact that our wonderful production of material and manufactured goods, "so immense that we are the wonder and envy of the whole world," and that the present year will eclipse all that have preceded it, both labor and capital should receive their reward after this long period of waiting.

We are a wonderful nation, and as yet only in the kindergarten department of trade conquests. As an Association, we are growing in good fellowship, and in some departments substantial results have been the reward. A continued unifying of mutual interests will produce the object for which we exist as a body.

I promised myself, however, not to trespass upon your time, and the interests of the Association may and will be discussed at our monthly meetings, as subjects of importance may develop from week to week.

At the conclusion of his brief speech, President Carter called upon His Honor, Josiah Quincy, Mayor of Boston, who, while recognizing the fact that Senator Frye might naturally have been expected to lead the procession, said in substance, that as mayor of the city he warmly welcomed to Boston the guests of the Association who were not "native and to the manner born," and then said he would take a present opportunity of addressing the business men and those present interested in the future of Boston as a city, on the matter of "the better regulation of the city's financial problem," having only recently introduced into the legislature a bill calling for a board of estimate and control. He spoke at length upon the purposes, and presented many arguments in support of that bill, which was of interest to all the merchants present.

The president, at the conclusion of the mayor's remarks, then introduced the star of the evening, as far as oratory

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was concerned, United States Senator William P. Frye, of Maine, who had been invited to deliver before his New England mercantile admirers, the admirable speech delivered recently before the convention of manufacturers in New York. This speech, which was a masterly plea for American maritime revival, and the extension and dominance of American commerce and shipping in every part of the world, is presented substantially herewith, occupying fully forty-five minutes in its delivery:

"I have been requested to repeat, so far as I could, the speech I made a few days since in New York at the Manufacturers' dinner, where President McKinley was the chief guest.

"I will do so, in part, with pleasure; very much as our minister feels when he makes an exchange of pulpits and can use an old sermon.

"Your interests, too, are identical with that association in New York. The purpose of each is to seek ways and means to open up foreign markets.

"You and I know the absolute need for that now. Our production from this time forth will exceed our demands. If we do not find foreign markets then this great country must begin to crawl, crablike, backward.

"God scattered with a prodigal hand his gifts to our beloved country. A seaboard almost limitless in extent, equipped with splendid and safe harbors, mighty rivers, arteries of trade stretching away across the continent, great lakes planted right where commerce seemed to demand them; boundless forests, mountains of iron, coal enough for the world, gold, silver, copper—every mineral and every metal man needs.

"We have made reasonable use of these gifts, especially since the civil war closed and peace resumed her benignant sway. Agriculture, mining, manufactures, have advanced by leaps and bounds, and our progress has been the marvel of the world. We now lead the nations.

"But four years ago we had a new teacher. He was terribly severe in his discipline, too. The purchasing power of our people was most seriously crippled, and consumption fell off one third. Now, that taught you gentlemen a lesson. What was it? No longer contented with the home market, a determined advance was made upon the foreign market. With what were you confronted when you tried it? An enemy most powerfully entrenched in power all over the world.

"Great Britain, France and Germany, with swift steamship lines making regular trips to every commercial port in the world, with banking facilities and credit systems established, highest commercial agencies, all the appliances for successful trade, and with a fiercely aggressive policy, not only to maintain what they had, but to extend it still further. In the East to-day you see the result. Now, how could you go ahead to scale such barriers as these?

"Gladstone, a quarter of a century ago, said: 'Our daughter beyond the seas may some time or other overtake her mother.' Suppose he should speak to-day, what would he say? 'Our daughter beyond seas has overtaken her mother, as she has distanced her in the race, and can only see her now by looking backward from the dust raised by the winds of our own magnificent industries.'

"We have the best home market in all the world, our people consuming per capita at least one-third more than any others. You are trying to reach another market. The first market you are trying to reach is the market of the Orient. You don't purpose to leave that to be closed against you. Is there any way you can shorten distance, reduce freight, lessen time in your search for the Orient market?

"Let the Nicaragua canal be constructed by the United States, and you have got it. I say, by the United States, because the government can construct that canal for one-half what any private corporation could do it for unaided.

"How far are you from the Orient to-day, as compared with your competitors? You here in Boston are from 3000 to 4000 miles farther off from Japan, from China, from India, from the south-west coast of South America than Liverpool, your great competitor.

"The moment that Nicaragua canal has been constructed Boston is as near Hongkong as Liverpool is, 1200 miles nearer the nearest ports of China, 1900 miles nearer Japan, 1000 miles nearer Australia, nearer British India, and 2700 miles nearer the western coast of South America. I think Yankees can take advantage of all such things as these.

"Look at it from a domestic point of view. That canal would bring Boston, New York and San Francisco and the mouth of the Columbian and the Puget Sound nearer to each other 10,000 miles. It would shorten the distance from the Columbia River to New York by steamer from 50 days to 20. It would shorten the time by sail from 120 days to 40 or 50 days. It would reduce the freight at least one-third. It would save every farmer in the Northwest $2 on every ton of wheat shipped, and an equal saving on all classes of freight.

"Will you say, then, that I am a dreamer when I say that there will be in the United States a quarter of a century hence a mighty empire in population, in wealth and in industries?

"I want this magnificent assemblage of men to use their powerful influence on the Congress of the United States to pursuade it at the earliest possible day to build this canal."

"There is a treaty pending in the United States Senate to-day for the annexation of the Hawaiian Islands. You are business men, and I am not going to sentimentalize with you.

"You are hunting for markets? Do you want to lose that one? Well, if the United States Senate does not give a two-thirds vote in favor of annexation you have lost it. Why do I say that? I say that if the treaty is not ratified by the United States Senate in less than a year the Hawaiian Islands will be under the protectorate of Great Britain.

"Your Nicaragua Canal, which is certain to be built, would more than tenfold increase the value of those islands. They look right exactly into its western mouth. In the hands of an enemy, your canal would not be worth a cent; would be utterly useless to us. In our hands, with a naval and coaling station there, we could protect that canal and our entire western coast against the world.

"Now, will you help us in the Senate?

"Gentlemen, if I were a dictator with absolute power in this republic, I would build the Nicaragua Canal, I would annex the Hawaiian Islands, I would aid in the construction of a railroad from our southern border down to Terra del Fuego, I would establish swift steamship lines to China and Japan, to Australia, and to every commercial port in South America, and then, by reciprocal treaty or in any other lawful way in which it could be done, I would participate largely in the trade of the Orient, and I would take entirely the trade of Mexico, of South America, and of the Central American states by the free admission of all our goods into them.

"Costly, say you? Yes, costly. There was never anything worth purchasing yet that did not have its price. Costly? Not so costly as to find yourself decreasing in profit from year to year, and decreasing in demand at home from year to year; cutting down wages of your intelligent workmen from year to year and finally degrading and reducing them to the condition of the workmen of Europe. Why, gentlemen, that is so costly that it might—it might, I say—risk the life of the republic itself."

Senator Frye next turned his attention to the merchant marine of our country:

"You cannot hope for success in foreign markets until

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you become the carriers of your own merchandise, until you have regular fleets carrying 'Old Glory' to every port in the world.

"Fifty years ago Great Britain was trying to solve this same problem. She determined that trade follows the flag, and decided to establish and maintain great fleets of fast steamships to every port in the world, and to this day she has never wavered, nor had occasion to waver in that policy. Her exports are to-day perfectly enormous as the result.

"The result justified Great Britain to the fullest possible extent. To-day she owns one-half of all steam and sail that navigate the world's oceans. What is your condition? It is the most humiliating and mortifying that man can conceive. It shames every man who has the blood of American patriotism in his veins. It is a disgrace. It is a crime against the American people. In 1818 you had 1,000,000 tonnage and carried 86 per cent. of your exports. To-day you carry none worth mentioning.

"You pay the freight.

"What are the causes? The free trade theorists say the tariff. Theorists stick to theories and say: 'Damn the facts!' There is no sentiment in business. Exports have increased under the tariff.

"The want of all protection on the ocean did it; that's what did it. In the old days we protected our shipping. The people then did not stand in such awe of Great Britain as you and I do to-day. The fathers saw Great Britain carrying almost all our water freights. They immediately concluded that it was time to stop it. And stop it they did. They put a duty on foreign bottoms. They said that goods brought in American ships should be dutiable 10 per cent. less than in foreign ships. They put a tax of six cents a ton on American vessels and a tax of about 50 cents a ton on foreign craft. Why, they didn't care a snap about Great Britain, did they, or her retaliation?

"We soon practically owned the ocean. We were proud. We were successful, and we concluded we could surrender.

"Great Britain immediately took the advantage. Great Britain was looking out for herself, as she always does. She doesn't have any of our humanitarian ideas as to her duty to other foreign nations. She is as wise as a serpent and not as harmless as a dove.

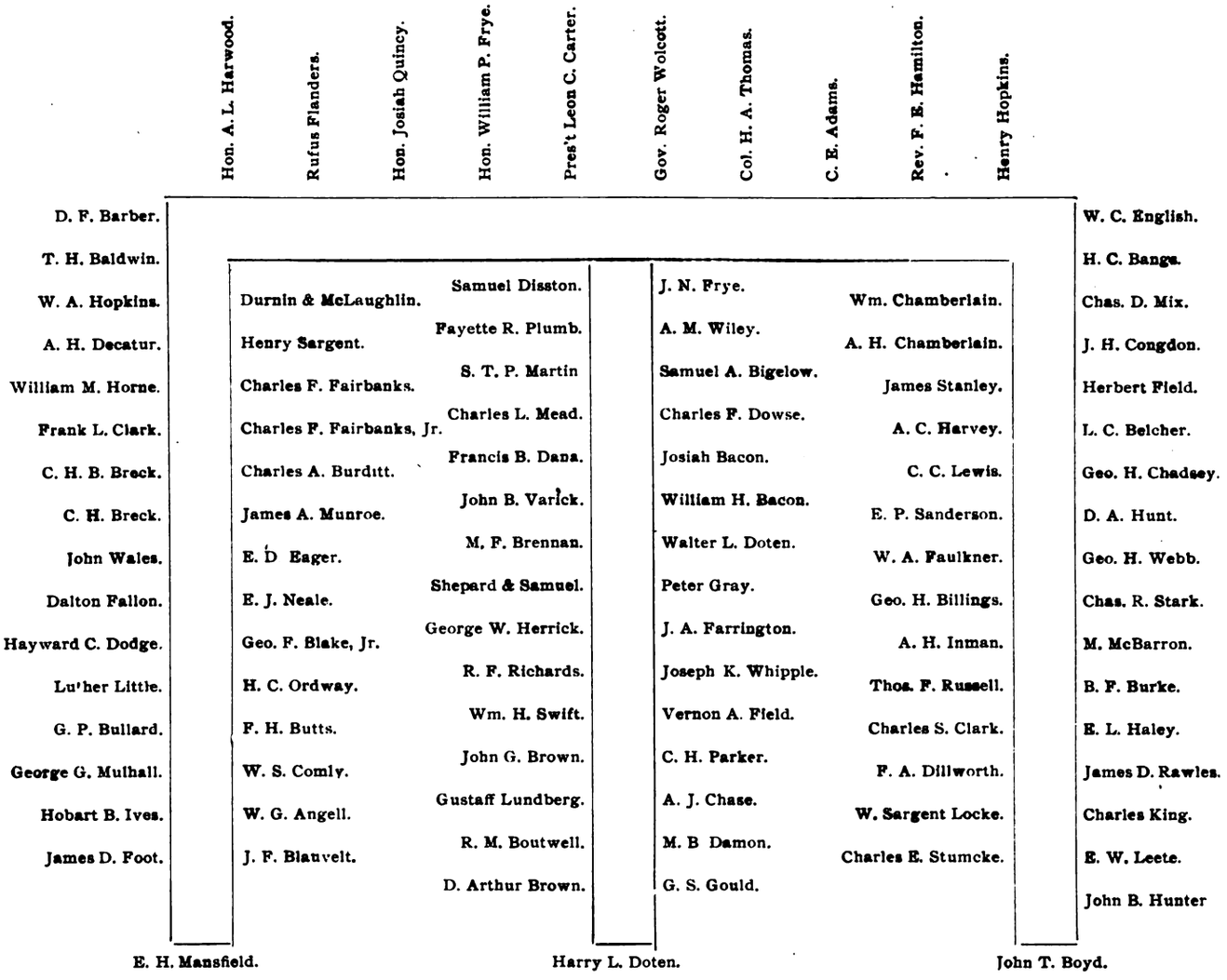
"Since 1849 our ships on the ocean have been with absolutely no protection whatsoever. They have been handicapped in every way. It cost 30 to 50 per cent. more to maintain them, consequently where a foreign ship can carry goods at a profit for $5 say, it would require a charge of $7 on our ships to cover even expenses.

"There is only one way under the light of the sun to restore our American marine. That is for the government of the United States to put its hand in its pocket and pay the cost of restoration. Our ships to day are unprotected, competing against others protected and encouraged."

Regarding a new tonnage tax the senator talked at some length, saying he hoped to see a bill reported to Congress that would answer the purpose of a discriminating duty to the degree that it would help our shipping a great deal more than it is helped now.

Every time one of the American line steamers goes into Southampton she has to pay an aggregate tonnage tax of about 8½ cents a ton, or four times what the English steamers pay here. In France the tonnage tax amounts to about 18 cents a ton.

"The result of this is," said Senator Frye, "that at pres-



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ent we are practically paying a bounty of about 16 cents a ton to the steamers of the French line and about six cents a ton to the various English steamers.

"About eight months ago a committee of the leading shipping men in the country called on me at Washington and we had a conference relative to a bill to amend the taxation laws as regards tonnage. The committee was a sub committee, and I understand it is about ready to report to the general committee of shipping men a bill for the raising of the tonnage tax.

"I do not know what the provisions of the bill will be exactly, but my understanding of it is that it will raise the tonnage tax enough to materially help the American merchant marine.

"I don't care for the cost of any action if it will restore American shipping," concluded the speaker, amid cheers.

Senator Frye was greeted with tumultuous cheers as he rose to speak, and could not have asked for an audience which more thoroughly hung upon every word, who were enthused by his convincing arguments and so enthusiastically applauded every telling point he uttered.

Senator Frye speaks entirely without notes, especially upon a subject like this, which has engrossed his deepest thought and pronounced convictions for many years. He makes his points in a manner that carries conviction with it, having an excellent voice and thorough command of language. He says what he has to say because he has opinions behind it, and listening to him becomes a pleasure subject to no necessity for giving him a time allowance. He knows, like an old hand at the business, when he has said enough. It was an object lesson in oratory to hear him give statistical information from some hidden corner of his brain, reaching back to the last quarter of the eighteenth century, without so much as a slip of paper to refresh his memory by. An old Hardwareman present said he'd bet "he could carry the new file list in his head," which he said he had found "was anything but dead easy."

Among the invited guests who were expected to add to the pleasures of the evening were: Hon. Roger Wolcott, Governor of Massachusetts, and Hon. H. A. Thomas, postmaster of Boston. Because of the inconveniences attending the storm and through a pressure of other matters, they were unavoidably absent. The speaking was brought to a close by the delivery of a short address by Charles E. Adams, president of the Massachusetts Board of Trade, who referred especially to the monetary convention at Indianapolis, to which he had been a delegate, representing the board of which he is president. The dinner was in every essential particular a great success. Much of the responsibility for its innumerable details fell upon the secretary of the organization, John T. Boyd, who acquitted himself in a manner so thorough, as to merit the praise due to indefatigable attention to his manifold duties.

The New England Iron & Hardware Association was organized June 14, 1893, and incorporated in 1894.

The officers for 1897–1898 are as follows:

Leon C. Carter, President.
(Dana Hardware Co., Boston.)
H. C. Bangs, Vice-President.
(Congdon & Carpenter Co., Providence, R.I.)
John T. Boyd, Secretary.
(Yale & Towne Mfg. Co., Boston.)
Chas. H. Breck, Treasurer.
(Joseph Breck & Sons, Corp.)

The present number of stockholders is fifty-two, each representing a separate firm, company or corporation.

The St. John (N. B.) Iron & Hardware Association gave its third annual dinner at the Hotel Dufferin, on the evening of January 19th. The invitations were very unique in their way, coming in the form of a hinge, interleaved with the menu, programme of toasts, etc.



Carpet Sweeper Co.

Under date of January 21, 1898, the Bissell Carpet Sweeper Co. make the following announcement to the trade: "In our previous announcements of the change in prices on our high-grade Cyco Bearing Sweepers, we overlooked mentioning the reduction in price that had been made on the original Grand Rapids, and which we are now supplying under the brand Bissell's Standard. It can be said for the original Grand Rapids, that no sweeper ever put on the market equalled it in popularity or selling qualities, and this claim is fully sustained by the fact that there were more Grand Rapids sold during the past fourteen years than all other makes combined. The only change that has been made in the original Grand Rapids is the change of the name to Bissell's Standard; hence you



will appreciate the value we offer you when we quote this justly celebrated sweeper at the low price of $20 per dozen in japan trimmings, former price $24, and $22 per dozen in nickel trimmings, former price $27—subject to rebates for quantity. Bissell's Standard is second only in quality to Bissell's Cyco Bearing Grand Rapids, and for a first-class sweeper to retail at a moderate price, in connection with our high-grade Cyco machines, nothing on the market approaches the Standard or original Grand Rapids. Of course, we need not say to you that no sweeper stock would be complete without our latest improved machines, containing Cyco bearings and dust proof axle tubes, as these goods



represent the highest point of mechanical perfection yet attained in a carpet sweeper, and are as distinctive in their class as chainless wheels, as well as being the only sweepers on the market that are sold at fixed retail prices, thus making the dealer's profits absolutely secure. Bear in mind, too, that the price of the Cyco Grand Rapids, jap., has been reduced from $24 per dozen to $22, and all other high grade Cyco sweepers, nickel trimmed, from $27 per dozen to $24—subject to rebates for quantity."

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Recent Trade Publications.

Stanley Rule & Level Co., New Britain, Conn,, and No. 107 Chambers Street, New York, have just issued their new and revised catalogue for 1898, which is the most complete and comprehensive they have yet issued, covering as it does all the latest labor-saving tools recently placed on the market by this progressive company. The catalogue now before us, while following generally the characteristic style of their previous catalogues, forms a pamphlet of nearly 70 pages, well printed and fully illustrated, with clearly defined descriptions of differences between styles of goods at varying list prices. The boxwood rules are attractively shown, printed in natural color of boxwood, all the brass parts being bronzed so that the metallic points of difference, as between a "rule" or "square" joint and a "double arch" joint are seen at a glance, and assist materially in making a selection for stock. We note a number of improvements, which is a noted feature of the "Stanley" production. On account of increased strength and accuracy, only "proved level glasses" are used in the manufacture of all their plumbs and levels; and the proved glasses take the place in their regular stock instead of the ordinary kind. All the Bailey and other iron spokeshaves are now made with a hole in each handle, by which they may be hung up over a workbench when not in use. Their Bailey iron planes, Nos. 3 to 8, will now be furnished if so desired, with "corrugated bottoms," without additional cost, if so specified in order. This catalogue should be in the hands of all "up-to-date" dealers, either in this country or abroad, and will be forwarded upon request.

The Brown & Sharpe Mfg. Co., Providence, R. I., have published a copy of the new edition of their catalogue. This has been thoroughly revised, and contains 437 pages, which are twenty more than are found in the preceding volume. The large number of tables that it contains makes it specially valuable to the workman aa a book of reference. As will be noted in a colored inset in this work, the principal additions this year to the machines and tools they regularly manufacture, are: Automatic cutting-off machine, automatic screw machine, automatic turret forming machine, belt polishing machine, universal grinding machine, improved No. 2, 60-in., arbors for face milling cutters with inserted teeth, face milling cutters with inserted teeth, inside micrometer gauge, micrometer calipers Nos. 9 and 11, micrometer depth gauge, screw slotting cutters ground for clearance, slide caliper rule, spiral gears, tools for use in screw machines, lists added to, twist drill and steel wire gauge No. 776. These catalogues are mailed upon application, to any address without charge, or are furnished by the Hardware and supply dealers.

The Aluminum Sign & Novelty Co., Columbus, Ohio, have issued their illustrated catalogue and price list No. 6, showing their extensive line of aluminum sign letters, street signs and house-numbers, brass drum and sill signs, bar and trade checks, etc. In a note of introduction they say: "Aluminum letters are now so widely used and favorably known that no introduction seems necessary in presenting this section of our 1897 catalogue to our agents and the trade in general. You will find in these pages, prices lower than we have previously quoted, and cuts which illustrate our line to better advantage than any of our previous issues. If you are not already equipped with one of our outfits, we would be glad to receive your order for the one most adapted to your needs. Either of these cases will be sent you C. O. D., with privilege to examine on receipt of one-fourth the price to cover cost of transportation, if not accepted."

Under the heading "Cycle Sundries," the Smith & Egge Mfg. Co., Bridgeport, Conn., are publishing a handsome little catalogue showing their line of goods for bicycle purposes. Among these are bicycle wrenches, sprocket locks, cycle locks, "The Club" toe clip, the "Giant" toe clip, cycle coasters, lamp brackets, screw driver and nipple grip, etc. These articles are all illustrated, and prices and other information concerning the same given in full. In a note of introduction to the trade, the company say: "The success of our business in Bicycle Sundries has been obtained by careful attention to the selection of material, and improved methods of manufacture which have ensured uniformity of quality in our products. The demand among riders for our sundries demonstrates this fact. For the season of 1898 we have added to our line improved Wrenches and toe clips. Although lower prices are the rule, yet the high standard of quality will not be impaired. Prompt attention will be given all enquiries, and samples will be furnished to reliable houses. Estimates made on all kinds of sheet metal specialties."

The estate of P. D. Beckwith, Dowagiac, Mich., proprietors of Beckwith's famous Round Oak Stoves, are sending their friends one of the handsomest calendars we have seen this year. Printed in colors on heavy cardboard, with borders of gold, is a reproduction of a very famous painting, and underneath is the title: "Always in the Vanguard," which is intended to represent the position the goods of this company hold in the trade. Accompanying the calendar is the following statement of facts: "New decorations, improvements and additions to the Round Oak family have been perfected for 1898, which will, we believe, surprise and highly please all customers, making it desirable for them to defer any arrangements for the season of 1898 until the new attractions are exhibited to you by our travelers."

P. J. Conroy, Island Avenue and Seventy-fifth Street, Philadelphia, Pa., has issued an attractive little catalogue for 1898 of his Automatic Refrigerator Door Fasteners and Locks. This shows his full line, with illustrations, accompanied by descriptions and prices. Mr. Conroy calls special attention to the fact that his door fasteners and locks "are in use by the largest manufacturers, and are for sale by all of the leading Hardware dealers in the country."

The Logan & Strobridge Iron Co., New Brighton, Pa., have issued some leaflets illustrating their coffee mills, fruit presses, iron toys, and a number of hot weather specialties, among which are ice chisels, ice hatchets, ice shredders, lemon squeezers, etc. A number of these articles are new, and possess many attractive features.

The Miller Lock Co., Frankford, Philadelphia, are sending their friends a catalogue illustrating the locks manufactured by them. This catalogue is well printed on heavy paper, and the various illustrations stand out in fine shape. It is bound in heavy boards, and makes an attractive addition to the literature of any Hardware concern.

We have received from the Parlin & Orendorff Co., manufacturers of agricultural implements and vehicles, Canton, Ill., their illustrated catalogue G, covering the lines which they produce. It is thoroughly illustrated, giving prices, etc.

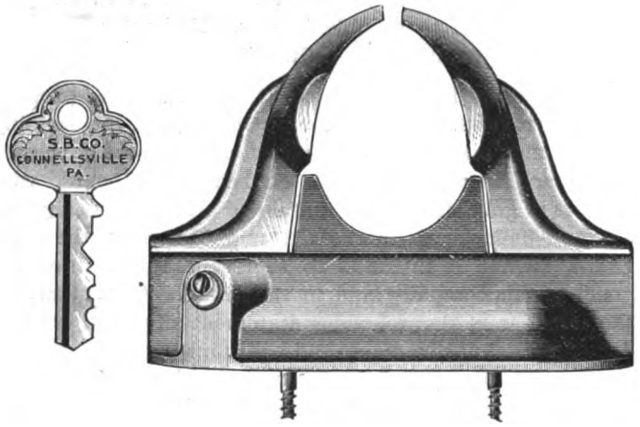
The American Coffee Co., Brooklyn, N. Y., are erecting a new power house in connection with their plant, which is about 70 feet wide and 120 feet long. The power house and boiler house have brick side wall construction and steel supports and roofing. Adjoining the boiler house is a coal bunker about 20 feet wide, which carries the supply of coal in a steel bin about 30 feet above the ground. The whole plant has been designed with convenience and economy in view, and when completed will be a complete plant which can be economically operated. The contract for furnishing and erecting the steel framework of the building has been let to the Berlin Iron Bridge Co.

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NEW GOODS AND SPECIALTIES.

Slaymaker-Barry Co.'s New Bicycle Stand.

The Slaymaker-Barry Co., Connellsville, Pa., John H. Graham & Co., general sales agents, No. 113 Chambers Street, New York, are placing before the Hardware trade, and dealers in bicycle sundries, a Self-adjusting Bicycle Lock Stand that is certain to be approved and appreciated



KEY, FULL SIZE. SIDE VIEW, HALF SIZE.

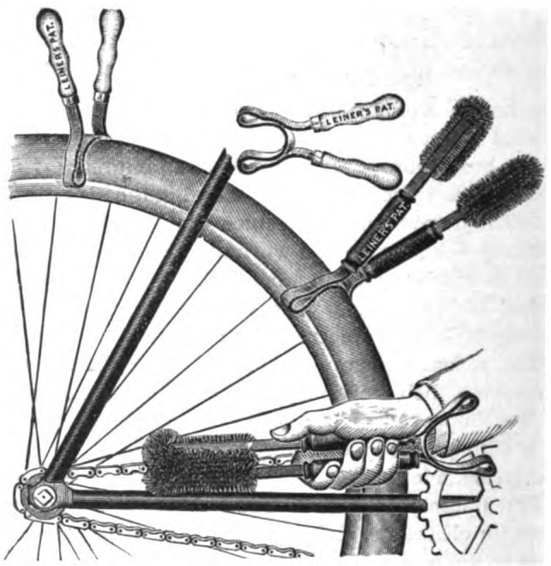
by the cycle riders of the country. We give herewith several illustrations showing parts of this automatic device, which, by the use of Pin Tumbler Lock, combines with its perfect security, the absolute prevention of all unauthorized removal of stand from its fastening, the fastening screws being completely covered when the wheel is locked in the stand. All the working parts being of wrought steel, and the springs formed in shapes giving additional security, it gives evidence of exceeding durability and strength, the grip on the wheel being firm and close, and positive in character. The adjusting jaws are so shaped, the size of the tire makes no difference, the space between jaws being



3⅜ inches, with a self-adjustment of ¼ inch at a time, until the jaws are entirely together, making the space sufficient to grasp firmly the smallest racing tire. It would seem to be a very desirable bicycle stand for securing wheels conveniently in public places or for home use. As the small and light keys belonging to the locking device are made in a very large number of changes, it is claimed to be extremely difficult for anyone unprovided with the proper key to remove it from its security.

Leiner's Bicycle Appliances.

M. Leiner, No. 1267 Boston Road, New York city, is manufacturing with great success, a line of bicycle articles, which, with their application, can be readily learned by an examination of the comprehensive illustration here shown. These comprise Leiner's patent bicycle tire brush, which cleans and polishes the tire and rim at the same time without trouble or soiling the hands; is made to fit any size wheel, and the material being of Russian bristles, can be washed out in hot or cold water without injury. It also shows his bicycle chain brush, made of pure bristles only, and which will clean both sides of the chain at one operation, and can be washed in hot or cold water; Leiner's patent tire scraper, which cleans neatly down to the rim, while a pressure on the handles adjusts for easy or tight movement on any size tire; and Leiner's duplex patent chain



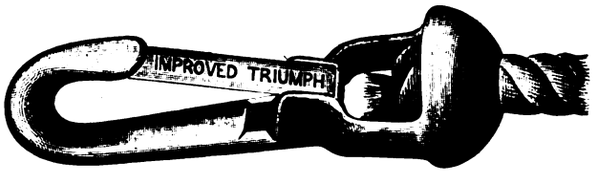
brush and tire scraper combined. This brush cleans both sides of the chain and the inside of the links at the same time, and can be washed out with hot water, soda or soap. The brush and scraper work by a double spring action, which is regulated by pressure on the handles. In regard to these most excellent articles, the manufacturer says: "The tire and the chain brushes were brought out late last season and had a phenomenal sale wherever shown, and are sought for from most of the trade centers of the globe. The tire scraper and the Duplex (chain brush and tire scraper combined) are just now completed, and no less success is expected for them. They, as well as the former, possess every desirable feature without any drawback. Each of them is warranted in every respect. These various articles, though intended to a certain extent for similar purposes, will not by any means interfere with the sale of each other, being different in feature and price. The Tire Brush, for example, will always be preferred by those who delight in having their mount in an immaculate condition, as it can always be used on the rim, frame, spokes and other parts, while each of the others has its own special merits. However, variety in any line is a stimulator to trade." In addition to the articles here shown, Mr. Leiner manufactures many novelties in the brush line, among

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which are wire twisted brushes for cleaning tumblers, milk jars, a very unique shutter cleaner, etc. Full information as to these attractive articles will be furnished by application to the manufacturer at the address given above.

The Triumph Snap.

Covert's Saddlery Works, Farmer, N. Y., are placing upon the market with success the Triumph Rope Line



Snap, shown in this connection. It is explained that in attaching the rope to the Snap, it is only necessary to insert the rope, tie a knot in one end, and draw back the rope into the socket provided for the knot. The snaps are made in different sizes suitable for rope, from one quarter to three quarter inches in diameter. The manufacturers state that the Snap is largely used in the manufacture of rope plow lines.

Parker Ice Tool Co.'s Combination Tool.

The Parker Ice Tool Co., Worcester, Mass., are, for their first season, putting upon the market two new and very practical and desirable Ice Shavers. Figure 1 shows their family combination Shaver and Awl combined. This is

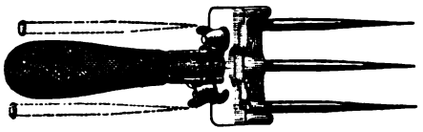


FIG. 1.

described as certainly an excellent ice-pick as well as shave, because of its practibility; can be quickly changed from one to the other by simply turning the thumb nuts and swiveling of the top, allowing the steel points, one or all of them to be removed at once. An excellent feature is that when used as an ice-pick there is but little danger of puncturing the ice box, and if you wish to crack a piece of ice, you can do so without reversing ends of the tool, as in the case with single picks. Besides, when you lay it down it stays where placed, because it cannot roll, and if the

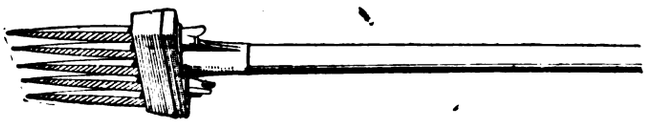


FIG. 2.

points ever break, a new one costs only 5 cents and can be had of the dealers or manufacturers. The ice-cart men size, Fig. 2, is equally as ingenious in its mechanical construction, and made upon scientific principles that leaves the ice in flakes when shaved. The especially desirable feature is that if by any accident any part of the tool is dulled, it is not necessary to wait until returning to the ice depot or house to sharpen. All that is required, is to have an extra set of points upon the cart, and can easily remove the dull and replace with a sharp tool. This will be seen

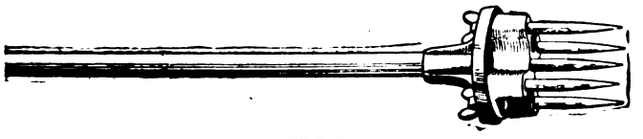


FIG. 3.

to be an important feature whenever sharpening is necessary, either upon the route or at the repair shop. These points are three square and all angles sharp. The shaves have been thoroughly tested by local dealers for one season, and spoken of by them as first class in every respect. The Parker Ice Tool Co. are expecting a large demand. They also make several other patterns of ice tools, from the cheap single pick that they sell large quantities of to ice dealers that supply their customers with picks, and with these they will place upon the handles the name of the ice company if especially ordered, either nicely nickeled or tinned. They also make a high grade awl for ice cart use, and have taken special pains to make them of the

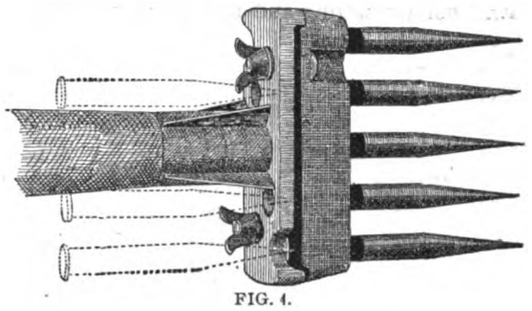


FIG. 4.

best quality of steel and spring tempered by expert mechanics. The Parker crusher for ice cream manufacturers' use, Fig. 3, has been upon the market for five years, and is evidently an excellent article. They also manufacture two smaller sizes similar in every way for family or other uses. These can be changed into a chisel when not wanted for crushing ice. In addition to the tools mentioned they make an excellent chisel upon improved ideas for uses upon ponds, Fig. 4. Catalogues can be had by addressing them.

Scattergood Mucilage Pot.

This is a very handy little article for the desk of any business man, and has just been introduced to the market by the Scattergood Co., No. 491 Philadelphia Bourse, Phila-

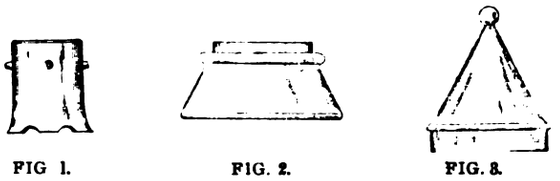


FIG 1. FIG. 2. FIG. 3.

delphia, Pa. Anyone who has experimented through long years of suffering with the average old-fashioned mucilage bottle, will hail this innovation with pleasure, as the brush is always where you want it to be, and the mucilage is kept within prescribed limits. An examination of the illustra-

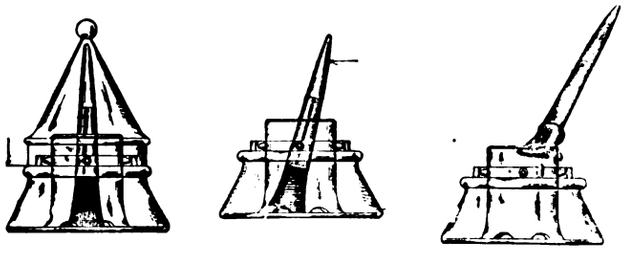


FIG. 4. FIG. 5. FIG. 6.

tions herewith shown will give a very good idea of the article itself. In Fig. 1 is shown a glass tube which sets into the bottle; in Fig. 2 the bottle itself, and in Fig. 3 the pyramidal glass top, which serves not only as a cover, but to keep the brush in position, and from being covered with mucilage throughout its whole length. The article com-

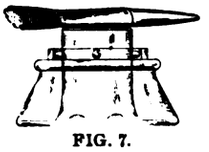


FIG. 7.

plete is seen in Fig. 4; without the cover in Fig. 5; in actual use in Fig. 6, and with the brush laid away in temporary safety in Fig. 7. In active operation, Fig. 1 is placed carefully in the centre of Fig. 2, the mucilage is poured in through the inner well, the brush put in, and the cover placed over all. If care is taken in filling, covering and uncovering, and wiping the surplus mucilage from the

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brush, the fluid will not evaporate, and will always be clean and sweet, ready for constant use. Liquid glue can also be kept in these pots without evaporation, if directions are carefully followed.

Bennett Combination Saw Tool.

We are pleased to present in this connection illustrations of a Saw Tool for setting and filling crosscut saws, which

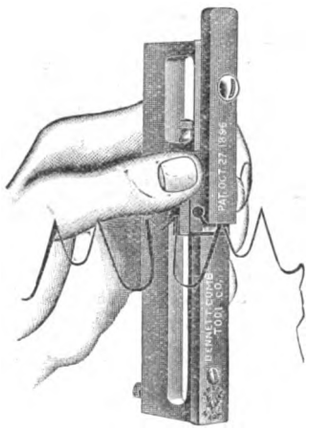


FIG. 1.

is now ready for the market. It is described as very simple and durable, not at all liable to get out of order. Everyone acquainted with the timber business knows something of the importance of the crosscut saw, but few realize the enormous quantities of them that are in constant use; and there is one thing that the woodsman does realize. It is, that while there are many excellent crosscut saws made, there are many that after having been used a short time, are not in a condition to do good work. "Often saws are thrown aside and condemned as unfit for use when the real trouble is there has been no proper tool for putting the saw into shape. The importance of having all the teeth set alike is easy to understand. Unless they are set perfectly

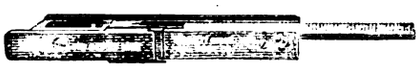


FIG. 2.

some of the teeth will make a groove outside of the regular path, and the saw will drag and jump. When the saw is properly set, the cutting teeth will sever the fiber on each side of the groove, and the raker teeth will carry out the cut fiber. In a properly set and filed saw, the sawdust is coarse, fine dust only being produced by irregular setting of the cutting teeth. The proper set of a saw for the different kinds of wood in which it is to be used is learned more by experience than anything else. As every woodsman knows hardwood, especially if frozen, demands very little set, but every tooth needs to be the same." The Bennett Combination Saw Tool, manufactured by the Bennett Combination Saw Tool Co., No. 159 East Houston Street, New York City, is described as entirely filling this want. Five of the

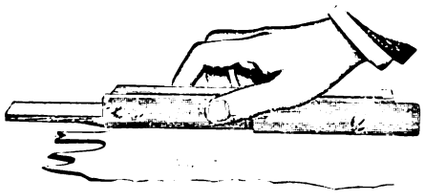


FIG. 3.

illustrations presented with this article are from the one tool. Fig. 1 shows the tool in position to set the tooth, and it is well to remember that each tooth can be set to the one-hundredth part of an inch. Fig. 2 shows the tool in position to side dress; Fig. 3 shows the tool in the operation of side dressing; Fig. 4, jointing to the tooth; Fig. 5, cutting down the raker teeth. As the crosscut saw is used more in the woods than anywhere else, a good feature is the fact that this tool can be used without a vise, or rather a vise can be improvised by sawing two or three inches into a log, then placing the saw into the notch so that the teeth will be uppermost. The blows on the setting member may be given with any strong piece of wood at hand, sliding the saw along into the groove so as always to strike on a solid place. There are several ideas in regard to the best form or shape of a saw tooth. Before the Champion tooth saws came into use, the common V-tooth was the most in use, and many sawyers still prefer to have cutting teeth of this

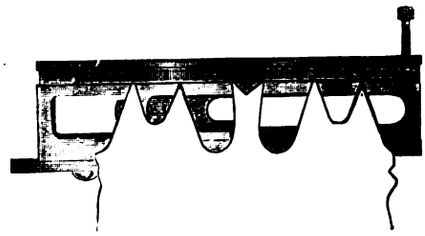


FIG. 4.

pattern. This, however, is a wrong idea, as the cutting teeth should not do any clearing. In all saws equipped with raker teeth, cutting teeth should have the shape shown in Fig. 6. They will cut deeper than any other style and will run easier. With a little practice, anyone possessed with the Bennett Combination Saw Tool can perfectly fit up a saw by following these instructions. Set a saw in accordance with Fig. 1, side dress as shown in Figs. 2 and 3; joint the saw according to Fig. 4. It is not necessary to joint a saw at every filing, but only when the teeth are uneven in length. Cut down the raker teeth as shown in Fig. 5; file the cutting teeth until they assume the shape shown in Fig. 6. To bring this about, the sides of the teeth must be filed first, and the transverse bevel, E, cut afterward.

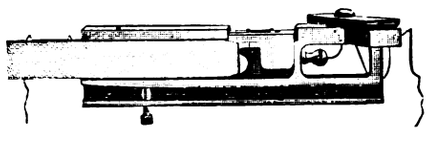


FIG. 5.

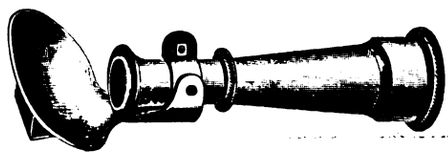


FIG. 6.

Take great pains not to file away any of the points of the teeth. Then bring the raker teeth to a sharp edge, and be careful not to continue filing after this edge has been obtained. Side dress the saw once more to take off the wire edge, thereby insuring a fine cutting edge."

"Paragon" Lawn Sprinkler and Nozzle

The Ordner Mfg. Co., Cleveland, Ohio, with New York office at No. 394 Canal Street, are placing upon the market the "Paragon" Lawn Sprinkler and Nozzle, illustrated herewith. This sprinkler can be adjusted to almost any nozzle at present on the market. When the nozzle is held in the hand the sprinkler will hang naturally out of range of the stream of water. When the nozzle is placed or dropped on the ground the sprinkler automatically comes into the position shown in the illustration, causing a spray.

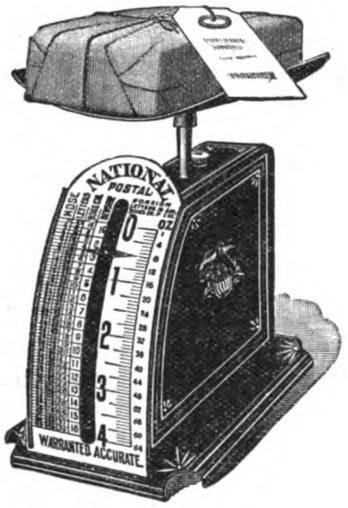


In using this device there is no back pressure on the hose, as the device sprays the water after leaving the end of nozzle. The nozzle can be taken up and transferred from one place to another without turning off the water and without getting one's self wet. Placed on the edge of walks the grass is sprinkled without wetting the walks. Flowers can be sprinkled by holding the sprayer on top of the nozzle. The deflector always remains below the nozzle no matter what may be the torsional action of the hose.

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National Postal Scale.

The National Postal Scale herewith illustrated, apparently well deserves the success it is achieving. It has become one of the necessary fixtures of a well equipped office, and has now found its way very appropriately to the library. In our day of progressive ideas, we have come to regard, "Time saved as money earned," and this is what the Pelouze Scale & Mfg. Co., of Chicago, claim as one explanation for the success of their National Scale. The National indicates instantly the exact cost of postage in cents on letters, merchandise, books and newspapers, from ½ ounce



up to 4 pounds. It also weighs foreign postage. The scale is made for offices in steel, artistically japanned and striped by hand. For the library, it is nickel-plated throughout. There is no tedious maneuvering of a poise on a beam, as in the old style of scale, but it shows the cost of postage instantly, as well as the exact weight. The reasonable price of $3 places it within the reach of all. It is one of those useful contrivances that soon pays for itself, if only in the saving of stamps. The National Postal Scale is warranted to remain accurate. The Pelouze Scale & Mfg. Co., in addition to the National Postal Scale, manufacture an attractive and inexpensive line of family, confectionery and counter scales.

Bush Cutter; Pruning Hook.

The Bemont Mfg. Co., South Glastonbury, Conn., are placing upon the market two excellent tools, the Lightning Bush Cutter and the Daisy Pruning Hook. The Lightning



FIG. 1.—BUSH CUTTER.

Bush Cutter is described as having many advantages over old style bush hooks. It will cut large or small bushes with ease, and is admirable for cleaning hedges along a fence and stone walls. "No bending over," say the makers; "you can stand up to your work and save many a backache." The Daisy Pruning Hook will be appreciated by the



FIG. 2.—PRUNING HOOK.

berry growers and gardeners for cutting out the dead canes and cutting back the growth of blackberry and raspberry vines; for trimming currant bushes, rose bushes and all kinds of shrubbery, and for a thousand and one other things. Full particulars, and terms to dealers can be had by writing the Bemont Mfg. Co., South Glastonbury, Conn.

The Cincinnati Tool Co., of Cincinnati, Ohio, have issued a very handsome catalogue of Hargrave's Mechanics' Tools, in which their line of goods is thoroughly illustrated and described.

In Favor of the Bissell Co.

The following is the text of an important decision of the English Courts, in favor of the Bissell Carpet Sweeper Co. It is a case of acquiring good will in a title or name, which could not be registered as a trade mark:

In the High Court of Justice,
Chancery Division. 1897 B. No. 2906.
Mr. Justice Stirling
at Chambers. Friday the 3rd day of Dec., 1897.

Between The Bissell Carpet Sweeper Co., Plaintiffs,
and
G. Greiner & Co., Defendants.

P. E. Reeve, Clerk of Entries. Upon the application of the plaintiffs by summons dated the 26th November, 1897, and upon hearing the solicitors for the plaintiffs and for the defendants, and upon reading the plaintiffs' statement of claim, and the plaintiffs and defendants by their solicitors respectively consenting thereto,

The Judge doth order that the defendants, G. Greiner & Co., their servants and agents, be perpetually restrained from selling or offering or advertising for sale under the term "Grand Rapids," "Grand Rapids Moquette" or "Grand Rapids Sweeperette," any carpet sweepers not manufactured by the plaintiffs, under any name or description of which the words "Grand Rapids" form part, without clearly distinguishing such carpet sweepers from those of the plaintiffs.

And it is ordered that the defendants, G. Greiner & Co. do deliver up upon oath to the plaintiffs, the Bissell Carpet Sweeper Co., all documents (if any) in the possession or power or under the control of the defendants, their servants and agents which exhibit the term "Grand Rapids," "Grand Rapids Moquette" or "Grand Rapids Sweeperette as the name of any carpet sweepers not manufactured by the plaintiffs.

And it is ordered that the defendants, G. Greiner & Co., do pay to the plaintiffs, the Bissell Carpet Sweeper Co., the sum of two pounds by way of damages.

The Hardware & Iron Dealers' Association of Eastern New York and Vermont was recently organized in Albany, N. Y. The following establishments were represented: McCormick & Dunn, Troy; J. E. Sawyer & Co., Glens Falls; L G. Kingsley, Rutland, Vt.; Albany Hardware & Iron Co.; Guilford Dudley, Poughkeepsie; Norton Hardware Co., of Fair Haven, Vt.; C. F. Drake, Troy; J. T. Johnson, Rondout; Williams & Tanner, Fort Plain, and M. Croissant, Albany. These officers were elected: President, Jas. L. Dunn, of Troy; secretary, Charles H. Turner, of the Albany Hardware & Iron Co.; treasurer, Guilford Dudley, of Poughkeepsie. Dinner was served at Keeler's, on Maiden Lane, and then an inspection was made of the model store of the Albany Hardware & Iron Co., on State Street.

The Grand Rapids Refrigerator Co., of Grand Rapids, Mich., on page 46 of this issue, present their new designs for 1898, of the famous Leonard Cleanable Refrigerators. This company have been in the market for so many years, and have won so enviable a reputation, that little need be said in regard to the quality of their product. Special attention is called to the movable flues, the advantages of which will be seen at a glance. Among the other special points made by the manufacturers, are the air-tight locks, solid iron shelves and the all-metal ice rack. One of the mottoes of this concern is "Eight Walls to Save the Ice." Full details, with prices, etc., will be sent upon application.

At the recent election of the Hardware Merchants' & Manufacturers' Association of Philadelphia, the following gentlemen were unanimously elected to serve during the coming year: President, James H. Ritter; vice president, Hugh McCaffrey; secretary-treasurer, T. James Fernley. The board of directors is comprised of William W. Supplee, Samuel Disston, John R. Griffith, Charles M. Ghriskey, William C. Peters and Thomas Devlin.

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Another File Plant for the Nicholson File Co.

The circulars below, copies of which are just at hand from the offices of the Nicholson File Co., of Providence, R. I., and the McClellan File Co., Saginaw, Mich., respectively, explain themselves, and will interest the Hardware trade as recording another extensive addition to the plant of the Nicholson Co.

Office of Nicholson File Co.

We herewith beg to inform you that on Jan. 31, 1898, this company, operating through the Great Western File Co., of Beaver Falls, Pa., its Western branch, concluded a lease of the real estate, machinery and good-will of the McClellan File Co., situate in Saginaw, Mich., for a term of years, and will hereafter control the product of this company.

We have not as yet definitely decided whether or not to resume operations immediately at the Saginaw factory. For the present, however, we propose to fill all orders for the McClellan brand of files and rasps in hand by the McClellan Co. at the date of its lease, or which may come to hand in the near future, as the result of its long established reputation, from our Great Western factory; and in the execution of all orders for such brand every care will be taken and every attention paid to the maintenance and improvement, if possible, of the present excellent quality of that brand.

The services of Mr. William McClellan, the founder and manager of the McClellan Co., have been engaged for the direction of the manufacture of the McClellan brand at our Great Western works. The many friends of Mr. A. J. McClellan will be pleased to learn that he will continue to solicit their business in the capacity of a representative of the McClellan and Great Western brands. This, in addition to the fact that our Great Western works leased the entire good-will of the McClellan Co., will assure to the friends of the latter company a continuance of the careful attention hitherto bestowed upon their needs in files and rasps.

In accordance with the policy in vogue at the factories of this company, adopted after careful study and an experience in file manufacture extending over thirty years, the practice of recutting files, as engaged in by the McClellan Co., will be discontinued.

Trusting to be accorded the full support of the trade in our assumption of the lessor's interests, we are,

Very respectfully,

NICHOLSON FILE CO.,

Samuel M. Nicholson, Prest.

Providence, R. I., Feb. 17, 1898.

Office of McClellan File Co,

We take this opportunity to state that on Jan. 31, 1898, the entire real estate, machinery and good-will of this company were leased for a term of years to the Great Western File Co., Beaver Falls, Pa., branch of the Nicholson File Co., of Providence, R. I.

The lessees have not as yet determined whether or not to continue operations at this factory. For the present, however, they propose to fill all orders for new files in our hands at the date of our lease, together with such as we may be favored with in the near future, from the Great Western factory. Such is the name and reputation of the Nicholson File Co., which operates the Great Western works, that we have little need to assure our friends that every attention will be paid towards maintaining and improving the standard of our brands. For orders in hand requiring immediate attention, our trade will be privileged to specify the Great Western Brand, made in the lessees' plant, in place of the McClellan Brand, should they so desire, at prices at present ruling upon the McClellan brand.

The undersigned will continue to exercise oversight over the manufacture of the McClellan brand as an official of the lessee company; the services of Mr. A. J. McClellan will also be retained in the interests of our brand.

Inasmuch as we have transferred our entire good-will in our business to the Great Western Co., we ask and trust that the support and friendship which you have accorded us throughout our business career will be extended in turn to those who have assumed our interests.

In accordance with the policy of the Nicholson File Co., to whom thorough investigation and an experience for over thirty years as the most successful file manufacturers in America have proved that recutting is not advantageous to either consumer or dealer, we beg to state that the practice of recutting will be discontinued.

Thanking you very sincerely for your past encouragement and support, and trusting for a continuance to our lessees and to ourselves in our new capacity, we are,

Very respectfully,

MCCLELLAN FILE CO.,

William McClellan.

Saginaw, Mich., Feb. 17, 1898.

With this addition to their plant, the Nicholson File Co. now control and operate five distinct factories, with a joint capacity of 6400 dozen, or 76,800 files daily. The Nicholson File Co. have been making additions and increasing their facilities in all of their factories for some time past to enable them to satisfy the domestic and foreign demand for their goods, and the acquisition of this new plant will put them in a position where they can handle their orders with greater ease.

Death of Edward Bernard.

Edward Bernard, who for upwards of thirty years had been the Southern trade representative of the Charles Parker Co., died suddenly on February 3rd, of apoplexy, at his late residence in Brooklyn, N. Y.

He was 68 years of age, and until a decade ago, had been actively before the Hardware trade, since he started as a youth with the old-time commission house of Cox & Wright. Nos. 4 and 6 Gold Street, N.Y., about 1850. The firm friendships made with his Southern customers in those early days have been continued through the succeeding generation, for few men have so thoroughly enjoyed the warmth of friendships long continued as "Ed" Bernard, as he was affectionately known and called by his friends and associates.

He was a man of the warmest impulses, possessing a social and convivial temperament, which continually showed the sunny side of a big heart. He is remembered to-day by those who knew him intimately, as a firm and conscientious friend, a kind and congenial companion—one



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whose hearty hand grasp gave an honest assurance of loving friendship and sincere esteem.

His early training in the Seventh Regiment, N. G. S. N. Y., always noted for its high military efficiency, was of such a character that at the outbreak of the Rebellion, Mr. Bernard, as captain, organized a company in what was known as the 1st U. S. Chasseurs, Lieut-Col. Shaler, commanding, but being badly wounded in the leg at the battle of Malvern Hill, he was early placed in a disabled condition, from the effects of which he suffered to some extent all his life. Always a bachelor, he had for many years made his home in Brooklyn, with a devoted sister.

Funeral services were given on Saturday evening, February 5th, and interment in Greenwood Cemetery took place on the following day.

Schollhorn Suit Won.

The William Schollhorn Co., manufacturers of Hardware specialties, scissors and shears, announce, under date of January 28th, the following to the trade:

Notice to the Trade: A decision in our favor has been rendered by Judge Townsend of the United States Circuit Court in the suit instituted by us against the Bridgeport Mfg. Co., Willis F. Hobbs, Ellie N. Sperry and Adolf Schatz, for infringement of the Bernard Plier Patent, No. 427,220, owned by us.

The decision of the court is, that the Pliers and Punches made and sold by the above named parties, are an infringement of this Bernard Patent, and therefore the court grants us an injunction restraining them from manufacturing, selling or using any of the infringing Pliers and Punches; and also orders that they shall render us an accounting of profits and damages, for all past infringement.

The court also decides that "the Bernard Plier is a New Tool, with a greater possibility of application of power, and adapted to more extended uses, and that the Bernard invention has produced a much stronger and more effective instrument with a firmer and more even grip than ever made before."

Therefore, we would caution and warn the trade, and others, against manufacturing, selling, or using any such infringing Pliers and Punches.

Yours truly,

THE WM. SCHOLLHORN CO.,
J. J. Henderson, President.

The fourth annual session of the Ohio Hardware Association will be held at the Hotel Chittenden, Columbus, Ohio, on Wednesday and Thursday, February 23d and 24th. Among the many interesting features of the session will be a question box. A large and interested attendance is looked for by the officers.

Review of the Markets.

Hardware: So far, the season of 1898 has opened auspiciously, although the West, under the influences that follow the flush period they have just gone through, are feeling more fully confident of an early rush that will be filled with urgent wants over a territory that for several years has been virtually out of a buying market. In the East the prospects look less lively and more conservative in character. The manufacturers are not booking so many advance orders as their Western brethren, and while they feel sanguine about the season being one more successful than we have lately been accustomed to, it will be at a little later date than they had hoped.

Wire Nails: The general tone of the market in this important staple has been greatly strengthened by the announcement of a settled policy governing the trade for the months of February and March, beyond which date prices are unobtainable, as they may then be dictated by the organization now in process of completion to control the wire and wire nail output. The price adopted and agreed upon by the leading mills is for carload lots f. o. b. mill, either Pittsburg or Cleveland; $1.45 for February and $1.50 for March. New York price for carload lots on dock is $1.60 to $1.65, smaller lots from store being held at 5 to 10 cents a keg advance. Business at the mills is reported as being fully up to the anticipated demand for February delivery.

Cut Nails: There is no extraordinary business being done in this line. Notwithstanding the price is very low at present quotations, demand is only normal and quotations firm. Carload lots on dock, New York, $1.25, and smaller lots from store, $1.30.

Machine Bolts, Carriage Bolts, etc.: This line of goods is having marked attention given to it by the dealers, the prices on this line since the slight advance a few months ago having been well sustained under a steady demand for current wants. The Western manufacturers are fairly well supplied with orders for early delivery. Eastern mills find business a little slower, but the unseasonable weather conditions of late have had something to do with the less urgent demand. Few, if any, other than improved changes in quotations are anticipated by the trade.

Files: At a meeting of the File Manufacturers' Association of the United States, held at the Astor House, New York, on February 3, 1898, it was unanimously agreed to maintain present discounts on the New File List for Canadian trade.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of February 3, 1898, quote as follows: In lots of less than 5 barrels, 46 cents per gallon; in lots of 5 barrels or more, 45 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than

CERTAINTY VS. UNCERTAINTY.

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

Common sense tells us to buy certainty every time, in preference to uncertainty. A reputation for high quality, means high quality not only to-day, but to-morrow—and next day, too. Certainty of this kind is slow in growth; but when it comes is powerful and lasting—goods with a name have an advantage right at the start; they are easy to sell. Our brands of belt—**1846 Para, Double Diamond, Carbon**—are household words all over the country—simply because we have always put into our belts the best rubber—the best duck—the best workmanship—**and everybody knows it.** We want good agents in every town; if we haven't one in yours, it will pay you to write us.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Philadelphia...308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.
Cleveland.....W. H. H. Peck Co.
N. Orl's, Woodward, Wight & Co.

NEW YORK BELTING & PACKING CO. LTD

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raw; Calcutta oil, 54 cents per gallon. Prices are subject to change without notice.

Dated Jan. 1, 1898, Stanley Rule & Level Co., New Britain, Conn., and No. 107 Chambers Street, New York, the following revised discount has been issued, applying to their 1898 catalogue, notice of which is given in elsewhere.

Awl Hafts	50&10%
Awls, Patent Pegging	50&10%
Beaders, Hand	25&10%
Bevels, Sliding T, No. 25	60&10%
Bevels, Patent Eureka, No. 18	40&10
Bit and Square Level	25&10%
Box Scraper, Adjustable	40&10%
Brad Awls, Handled	40&10%
Butt Gauge, No. 95	25&10%
Clapboard Marker	25&10%
Clapboard Gauge	25&10
Chalk-lines, Reels and Awls	40&10%
Chisel Gauge	25&10%
Countersinks, Wheelers	50&10%
Dowel Sharpener	50&10%
Gauges	60&10
" with Imp. Face Plate	60&10%
" Butt and Rabbet, No. 92	25&10
" Metallic, No 91	25&10%
Handles, Brad Awl	40&10%
" Plane	40&10%
" Saw	40&10%
" Screw Driver	60&10
Hammers, Magnetic	40&10%
" Tack, No. 4	40&10%
" Steak	40&10%
" Upholsterers	40&10%
Hollows and Rounds for plane No. 45	25&10%
Levels, Eclipse, No. 34	25&10%
Level, Bit and Square	25&10%
Levels, M'ch'sts, Nos. 38½ & 39½	25&10%
" Metallic, Nos 36 and 37	25&10%
Level Glasses, Ground	25&10%
" " Proved	60&10%
Level Sights	25&10%
Mallets, Hickory & Lig Vitæ	25&10%
Mitre Boxes	25&10%
Mitre Squares	40&10%
Mitre Try Squares	40&10%
Odd Jobs	25&10%
Plumbs and Levels	75&10%
" " G'd Glasses	25&10%
" " Duplex	25&10
" " Metallic	25&10%
Pocket Levels	70&10%
" " Hexagon	25&10%
Plane-Irons	50&10%
Planes, Bailey's Adjust., Iron	50&10%
" " " Wood	50&10%
" " " Block	50&10%
" Stanley's " Steel	50&10%
" " " Wood	50&10%
" " " Block	50&10%
" Circular	50&10%
Planes, Beading, No. 50	25&10%
" B'd'g, Rabbet, etc., No. 45	25&10%
" Core-Box	25&10%
" Chamfer	25&10%
" Dado, No. 47	25&10%
" Floor	25&10%
" Nosing, for 1Pane No. 45	25&10%
" Rabbet	25&10%
" Rabbet and Block, No. 140	25&10%
" " and Filletster, No 78	25&10%
" Router	25&10%
" Side Rabbet	25&10%
" Scrub	25&10%
" Tonguing and Grooving	25&10%
" Universal, No. 55	25&10%
Plow, Dado, etc., No. 46	25&10%
" & M'tch'g Plane, Bull N'se	25&10%
Plumb Bobs, Adjustable	40&10%
Roofing Brackets	25&10%
Rules, Boxwood...Stanley's	80&10%
" Ivory	50&10%
" Ivory....Stearn's	50&10%
" Miscellaneous, Stanley's	60&10%
" Extension	25&10%
Scraper, with H'dl's & Roller	25&10%
Scratch Awls, Handled	40&10%
Screwdrivers, No. 64 Var. Hdls	70&10%
" No. 86	75&10%
Screwdriver Handles	60&10%
Spoke Shaves	50&10%
Spoke Shave Cutters	50&10%
Spoke Shave, Universal	25&10%
Trammel Points	40&10%
Trammel Points, for Rules	25&10%
Tool Hdls. and T'ls, Excelsior	40&10%
Try Squares, No. 20	60&10%
" Adjustable No. 14	40&10%
" Iron Handle, No 12	40&10%
" Inlaid, No. 10	40&10%
Try & Mitre Sq., Winterbtm's	50&10%
Veneer Scrapers	50&10%

The Pittsburg Pump Co., Pittsburg, Pa., make the following quotations to the trade, applying to their supplementary catalogue of new goods recently published:

"Monarch" Lawn Sprinkler	per doz., $6.00 net
Handy Nail Dishes	" 9.00 "
"Oxo" Sink Traps	" 4 co "
1¼ in. Brass Ells and Unions for same	" 3.60 "
Brass Water Packed Cylinders	80%
"King" Tank Pump	50–10%
Wall Pave Washes	each, $1.75 net
"Hornet" Power Pump	50%
"Hercules" Diaphragm Pump	$20.00 net
New "Eagle" Spray Pump	2.50 "
"Ohio" Double Acting Force Pump	50%
"Ohio" Water Packed Double-Acting Force Pump	50%
"Pittsburg" Lift Pump	60–10%
Brass Stop Cocks, Hydrant Cocks and Compression Bibbs	60%
"The Winner" Shoe Lasts and Stands	50%



The New Departure Bell Co., Bristol, Conn., J. H. Graham & Co., sole agents, No. 113 Chambers Street, New York, quote as follows their revised prices on bicycle bells and other specialties manufactured by them, the list prices and net prices being given in parallel columns:

Description.	List.	Net.
NEW DEPARTURE BELLS.	Per doz.	Per doz.
No. E-3	$18.00	$8.05
" E-4	15.00	7.33
" E-5	13.80	6.66
" E-6	12.00	5.94
" E-7	10.20	4.55
" E-8	9.00	3.78
" E-9	9.00	3.90
" E 10	7 20	3 27
" D-6	9.00	3.89
" D-7	7.20	3.27
" D-8	7.20	3.22
" D-9	5.40	2.50
" E-3½	15.00	7 50
" E-4½	12.00	6.83
" E-5½	12 00	6.11
" E-6½	10 80	5.55
" E-7½	9.00	4.11
" E-8½	7.80	3.45
" E-9½	7.20	3 45
" E-10½	6.00	2.80
" D-6½	7.80	3 61
" D-7½	6.00	2.78
" D-8½	6.00	2.94
" D-9½	4.80	2.33
" S-3	3.60	1.66
" S-4	3.60	1.56
" S-5	3 00	1 16
" S-6	2.40	1.05
" S-7	1.80	.83

Description.	List.	Net.
BRISTOL BELLS.	Per doz.	Per doz.
No. 322-B	$7.20	$2.25
" 321-B	5.40	2.00
" 312-B	5.40	2.10
" 311-B	4 20	1.85
" 322	6.00	2.15
" 321	4.80	1 90
" 312	4.80	2.00
" 311	3.60	1.75
" 222	5.40	2.11
" 221	3.60	1.85
" 212	4.80	1.95
" 211	3.00	1.61
" 122	4.20	1 72
" 121	3.60	1.55
" 112	3.60	1.50
" 111	3.00	1.40
New Departure Cyclome er	12.00	7.50
Sykl Pump	$9 00	$4.00
Lamp Bracket	3.00	1 25
Screw Driver	.60	.30
	Each.	Each.
Automatic Brake	$3.50	$2.00
TROUSERS GUARDS.	Per pair.	Per gro.
New Dep'rture, Jap'd.	$0.10	$2.25
" " Blued	.05	2 00
PerfectionPat'n, Jap'd	.10	2 25
" " Blued	.05	2.00

F. E. Kohler & Co., Canton, Ohio, make the following quotations on spring and flexible curry combs for season of 1898:

Magic Oscillating Comb	per gross, $15.00
Humane Cattle Cleaner	" 14.40
Shedder-Mane Comb	" 12.00
Flexible Back Comb, Pattern A, No. 1	" 18.00
" " " " A, No. 2	" 16.00
" " " " A, No. 3	" 15.00
" " " " B, No. 1	" 17.00
" " " " B, No. 2	" 15.00
" " " " B, No. 3	" 14.00

and the following quotations on stiff back curry combs:

SHINGLE BACK.

All Steel, Enameled Handles, Brass Ferrules, Oval Face, Shank running through handle.

No. 253 L, 5 bar, plain, Japanned	per dozen, $0.70
" 263 L, 6 bar, Japanned	" .80
" 273 L, 7 bar, plain, Japanned	" .90
" 281 L, 8 bar, with Shedder, Japanned	" 1.25
" 282 L, 8 bar, with Mane Comb, Japanned	" 1.10
" 283 L, 8 bar, plain, Japanned	" 1.00

CORRUGATED BACK.

All Steel, Enameled Handles, Brass Ferrules, Oval Face, Shank running through handle.

No. 163 L, 6 bar, plain, Lacquered	per dozen, $0.70
" 181 L, 8 bar, with Shedder, Lacquered	" 1.20
" 182 L, 8 bar, with Mane Comb, Lacquered	" 1.00
" 183 L, 8 bar, plain, Lacquered	" .85

OPEN BACK.

All Steel, Carmine Handle, Oval Face, Shank running through handle.

No. 063, L 6 bar, plain, Japanned	per dozen, $0.60
" 083, L 8 bar, plain, Japanned	" .75

If wanted tinned, place a T after number instead of L and add 15 cents per dozen. Terms: 60 days or 2 per cent. 10 days from date of invoice. Actual freight allowed. No freight allowed on shipments less than 100 pounds. No charge for packing.

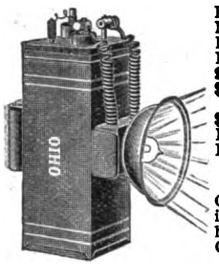
The Rockford Tack Co., Rockford, Ill., send us the following revised discounts on their line of goods, for 1898 trade, to apply to their "Hardware Price List" dated March 25, 1895.

Steel Carpet Tacks, Bright or Blued	00&30%
" " " Tinned	90&30&10%
S. S. " " Blued	90&20%
" " " Tinned	90&20&10%
" Blued Card or Cut Tacks	90&1 %
" Bill Poster or Railroad Tacks	90&20%

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WE UNDERSELL ALL.

It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights.	$4.0
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3 95
$100 Bicycles, best make	39 00
$1.25 Bicycle Bells	.50
Electric Bells, finest.	.30
Dry Batteries, best	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. Catalogues free.

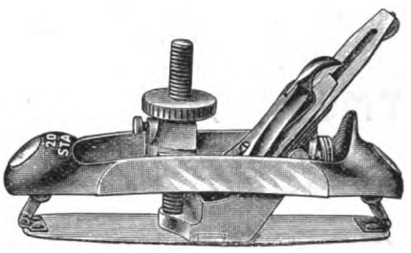
OHIO ELECTRIC WORKS, CLEVELAND, O.

IMPROVED
Labor-Saving
CARPENTERS' TOOLS.

STANLEY
RULE & LEVEL CO.
New Britain, Conn.

SOLD BY ALL
Hardware Dealers.

Stanley's Improved Victor Circular Plane.



The Flexible Steel Face of this Plane can be made concave, or convex, by turning the screw which is attached to its centre.

No.20. Circular Plane, Nickel Plated, 1¾ in. Cutter, $6.00

S. S. Upholster Tacks	90&25%
" " Tinned	90&25&10%
" Gimp and Lace Tacks	60&30%
" " " " Tinned	90&30&10
" Basket Tacks	90&10%
" Miners' Tacks	90&20%
" Basket and Chair Nails	80&20%
" Cigar Box Nails	80&10 %
Steel Hungarian Nails	80&25
" Finish Nails	85%
" Trunk and Clout Nails	85%
" " " " Tinned	85&10%
" Common and Patent Brads	80%
Copper Nails and Tacks	60%
Picture Frame Points	75%
Looking Glass Tacks	60%

Goods delivered by freight to points on or east of Missouri River. No expressage allowed. All our previous quotations for the above goods are hereby withdrawn, and the above discounts are subject to change without notice. Terms: Cash 30 days, payable in funds current in Boston, New York or Chicago. Two per cent. for cash will be allowed if bills are paid within 10 days from date of shipment.

THE PITTSBURG TRADE.

January was a good month in Hardware in Pittsburg, yet it might have been better. If the present cold snap had visited us a month earlier, many seasonable goods would have moved, which the mild weather prevented, and which will hardly go this late in the season.

It is wonderful how hungry manufacturers are for orders, despite the low prices and the fact that they are already fairly well employed. They all have increased their capacity for big output and it takes tremendous quantities to keep them busy. It is this fact which prevents any advance in prices. Very few manufacturers have the backbone to advance until they are satisfied their competitors have all they can do and will maintain an advance. The wire and nail men seem to have the requisite amount of backbone, in view of their prospect of consolidation and the rush of spring orders, and have made a moderate advance, to which we think they are fairly entitled. "Everybody" looks for a good year's business, which will help towards that desirable end. The bank clearings throughout the country show a big increase in commercial transactions for the past month. We believe this is the year we expected twelve months ago, and that it will be all the better for having been held back. LOGAN-GREGG HARDWARE CO.

THE BIRMINGHAM TRADE.

The new year starts off well. January has been a very active month with us, even though our trade in January, 1897, was large; the same month for 1898 is more than ten per cent. increase, and if we can hold out at this rate, 1898 will break the record of all predecessors. We confidently expect a good trade. There is some talk about extending new lines of railroads, and if this is realized, it will create trade and help business. Notwithstanding the winter has been very mild, the coal operators have good orders and are working full time. We learn they are receiving many orders for export. The furnaces also are running full time and find demand for their product. They have learned it is well to export their surplus at least, and now that they have begun this business, we do not think they will give it up. To take the surplus off the market here leaves the trade at home healthy and enables them to obtain a better price. We think that all manufacturers would do well to learn this lesson, and feel that many of them have learned it. American ingenuity, together with the improved machinery, will always be able to hold the field against the competition of the world, and the more we can export and the larger trade balances which will thus be in our favor, will do very much to dispel the delusion that we need more money and cheaper money. Our people in the South are gradually learning that to build cotton mills and send to the markets our great staple in the manufactured condition instead of the raw staple, thus getting 12 cents a pound where they would otherwise obtain 5 to 5½ cents, leaving the difference at home, is what should be done. Last year three large cotton mills were projected in pursu-

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.



THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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We give an elegant display showcase to our customers.

The case measures 3 feet by 22 inches, has antique oak trimmings, a curved plate glass front, display shelf, and receptacle for stock.

Write for further particulars.

SEYMOUR CUTLERY CO., HOLYOKE, MASS.

MANUFACTURERS OF

SHEARS AND SCISSORS.

Established 1839.

SEYMOUR SHEARS ARE THE STANDARD

The BEST FOR BICYCLES, GUNS, TYPEWRITERS ETC.

OILER IN THE WORLD



Regulates s pp'y of oil to a drop.

DOES NOT LEAK

We make cheaper oilers also, unequalled for PRICE and QUALITY.

Cushman & Denison, 172 9th Ave., N. Y.

ance of this idea, and we look for others to follow. It does not look as if this business would be easily overdone as long as two-thirds off the product has to be exported to find a market. Why not send away the manufactured goods instead? When the many advantages of soil, climate and natural products are considered, it is wonderful that the progress has not been more rapid.

MOORE & HANDLEY HARDWARE CO.

THE COLUMBUS TRADE.

Our business for January was very satisfactory, and the outlook for this month is encouraging. The weather has checked the sale of early spring goods somewhat. With the thermometer bobbing around the zero mark in February, retail merchants have not had much trade, and naturally hesitate about buying as freely as they would if the weather was milder. That same old ground hog was around February 2nd, and he could admire himself in the sun's mirror most of the day.

The writer has a personal dislike for the animal that most people call the woodchuck. In my boyhood days I lived on a farm, and owned a hound, and had great times after rabbits, or anything that went on four legs in the way of game. One day that hound ran a rabbit into a hole at the base of a tree. I, of course, wanted the rabbit and reached into the hole to get him. I was surprised to get hold of a long tail and thought I had found a long-tailed rabbit. I pulled with all my might, but could not pull the tail off, or the animal out. I did the same as the Irishman; I let go to get a fresh hold. The animal decided to change ends, so he could get a fresh hold also. It was a woodchuck, and he was the fellow who got the fresh hold, and it was on my finger. I took my hand out immediately—strange, wasn't it? Of course I was mad, and bound to see what kind of a rabbit I had to deal with. So after tearing away some "wood," I "chucked" the life out of him in short order. I never had any love for a woodchuck since. And I can think of a great many that did not see their shadows February 2, 1898.

There is quite a demand for wire and nails, and the recent advance has stimulated trade on those articles considerably. We are glad they did not make much of an advance, and hope they will not. Wire has become one of the necessities of the farmer, and a difference of twenty-five cents per 100 pounds keeps many a farmer from building a new fence. Quite a number of articles have been slightly advanced, while a number have been reduced, so they will about average up. The usual cutting of prices by jobbers under manufacturers' prices on season goods has begun. Screen goods, poultry netting, steel goods, etc., are the jobbers' delight.

The retail Hardware dealers will hold their annual convention in this city on the 23rd and 24th of this month, and the prospects for a large attendance are favorable. The Wholesale & Retail Hardware Association of Columbus will give them a smoker on the evening of the 24th. We think they will enjoy it. In fact, we propose to see that they do enjoy it, and knowing them to be a jolly lot of good fellows, we expect to have a flow of feast and souls "and mineral water." Why can't the genial editor of *Hardware* make it convenient to enjoy the occasion with us? We know he would be welcome, and think he would find Columbus a pretty good town, and the "*only right*" place for the Ohio Centennial. SMITH BROS. HARDWARE CO.

THE BUFFALO TRADE.

The first month of the year is now history. To many it brought bright hopes and anticipations for improvement over the corresponding period of 1897; to some it left full realization. We are glad to be accorded the privilege of being counted among the number who can report progress. It is difficult to assign any one reason for our being able to give this information, as many things have contributed to it. Stocks in the hands of the retailers have been low for some time, and they have been obliged to replenish them to some extent The mechanic has been idle for months, and has again taken up his tools.

Collections have shown an improvement, and last, but not least, the reported advances in price, from time to time, have caused some to make purchases in the hope that they might regain a portion of that which they have lost in the steady decline of the past. These we consider among the chief reasons for our being able to report improvement in our cash receipts, together with increase in number and volume of orders.

We feel that the present year will bring good business,

STUBS' TOOLS.

FRENCH FILES & RASPS.

S. J. ADDIS' LONDON CARVING TOOLS.

HAMMACHER, SCHLEMMER & CO.

DIRECT IMPORTERS

209 BOWERY NEW YORK.

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not in the sense of a boom, or spasmodic character, but a steady trade. Much can be done by manufacturers to bring about this state of affairs if they will be reasonable in their advances, and not attempt to overdo it.

May this be the banner year. WEED & CO.

THE CHICAGO TRADE.

We are pleased to report a business for the past month, of more than thirty per cent. increase over our trade for January of one year ago.

When the present low price of goods is considered, we feel warranted in calling this a first-class increase, even for a Chicago firm.

On February 1st we received notice of an advance of five cents per hundred pounds on plain and barbed wire, fence staples and wire nails, with the additional information that a still further advance is contemplated.

With the rapidly increasing demand for Hardware, that is sure to come as the spring trade approaches, it would not be at all a matter of surprise if both manufacturers and jobbers would be able to secure something better than the present exceedingly low values for most articles in the Hardware line. In the meantime, our firm expect to be at the bottom in the way of prices and make our customers feel as much at home as if we were making money out of their trade.

Prospects were never brighter for a good spring business, and we are fully prepared to take advantage of it.

WELLS & NELLEGAR CO.

THE BOSTON TRADE.

January business has been fully up to the average of the winter months, and the first weeks of the year always find the retailer placing small orders to keep his stock in good condition for the season's trade.

The bright warm days of January were suggestive that spring would come sometime, and orders were taken for many seasonable goods. The low ruling quotations were also an incentive to buy such items on which there seem to be no possibility of a decline.

The bicycle trade may be said to be fairly opened, and the tendency is to see who has the best wheel for the smallest amount of money. A first class warranted wheel is to be retailed from $35 to $40, and from the sales already made of this grade, it looks as if there might be a scarcity of wheels to be sold at this figure.

The wire trust is more in evidence than ever, and the firm prices on barbed wire and nails are creating a demand for these goods. The quotations for February delivery, with a possible advance in March, have already been the means of receiving many orders for these staples.

Collections are much better than a year ago, and we firmly believe that the outlook for a good spring business is much better than for several years past.

FRYE, PHIPPS & CO.

THE DAVENPORT TRADE.

The storm of the 25th ult. interfered with business for several days. Snow came too late to help the sleigh-bell or hand-sled trade in this vicinity.

The monetary convention at Indianapolis attracted attention; Davenport was well represented there.

Some manufacturers are making a desperate effort to divert trade from jobbers, and the fight is on; but after the smoke of battle clears away the conservative jobber will be seen doing business at the old stand.

Our savings banks here have reduced their rate of interest on time deposits from 5 to 4 per cent., which shows that money is plentiful.

The Crescent Bridge Co. have a large force of men at work on the new railroad bridge across the Mississippi at this point, and claim they will be ready for traffic on or before Nov. 1st.

Much building is promised for early spring. Prices are steady, with a slight upward tendency on wire, barb wire and wire nails. Farm implements, known to the trade as steel goods, are selling in advance of wants on account of the prospective shortage in supply. Advance orders are also coming in freely for poultry netting, screen doors and screen wire. These goods are, however, sold for fun and not for profit. Competition is getting to be the death instead of the life of trade.

SICKELS, PRESTON & NUTTING CO.

THE OMAHA TRADE.

January business shows a liberal advance over the corresponding month of a year ago, and the outlook for February is even more satisfactory. The conditions prevailing throughout the country could not be improved upon.

The winter has been a particularly favorable one for fall wheat, and the ground is in a condition that has not been equalled for many years, and the hopeful feeling that pervades both mercantile and farming communities is the best evidence of things hoped for, but not yet seen. There seems to be no reasonable doubt but that the present year will be the most satisfactory one for a long time, and it is to be hoped that too many combinations will not materialize to impair confidence. Prices are holding their own in good shape locally. The Exposition is progressing at a rate that surprises not only the people at home, but visitors from abroad, and the retail trade is generally reported better than for a number of years past.

RECTOR & WILHELMY CO.

THE DENVER TRADE.

Since writing you last, we have passed the holidays and seen the end of the freight war in this territory. We have entered well into the new year, and January proved a surprise to the local wholesale Hardware trade. It was a cold month, is usually dull, and with the heavy shipments in December under the low rates, less than the average was expected this year. It is a pleasure to record a 35 per cent. improvement over last year. May the "pace" be kept until the year is run out.

GEORGE TRITCH HARDWARE CO.

THE PHILADELPHIA TRADE.

The intense cold weather and heavy storms of the past few days have made travel difficult, and doubtless retarded business to some extent, but on the whole, seasonable weather is always an advantage, as in this case it enables trade to work off seasonable goods, and thereby leaves them with empty shelves ready for replenishing in the spring.

So far the call for spring goods has not been anticipated to any extent, except, perhaps, in the line of one or two items which were considered low in price and likely to advance. Indications, however, all point towards increased trade, while from the West come reports of the most encouraging character. It is an almost universal report that jobbers in the West are exceedingly busy, and, as for ourselves, we find that Eastern manufacturers are more than busy in filling orders which have come largely from the West.

It is only a question of time when this business will find its way East, and as Western orders mean increased employment to Eastern workers, they likewise mean more money to be spent through the channels of trade.

The event of the past few days has been a marked stiffening in the wire market, which not only takes in wire nails and barbed wire, but which promises to include all goods made of wire, and the long talked of consolidation of wire interests appears now on the point of accomplishment. Opinions differ largely as to the desirability of such consolidation, but we have to deal with facts as we find them, and not with theories.

The bicycle business is now firmly started, and although the roads have not been in condition for use, still sample

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orders are being placed in a way that seems to point towards a fair spring trade, with lower prices, of course, ruling than ever before. BIDDLE HARDWARE CO.

THE GRAPHITE TRADE.

The "Advance Agent of Prosperity" has taken up his abode with us, and evidently is pretty well contented with his quarters, for we are simply booming in all departments.

January closed with a big percentage of sales over the 1897 January. Our secretary expressed a fervent desire to be left alone for two weeks without any added duties, that he might be enabled to catch up with his desk work. This desire is an echo all along the line, including the factory superintendents.

Of course, these desires might as well be unexpressed, for the work piles up just the same.

One impatient customer telephoned this week, offering a bonus if we would only put his shipment ahead of a promised date.

"Please ship by first express" is a familiar heading to orders, and we had a rubber stamp, "hurry," made to save the order clerk the labor of writing it innumerable times.

Blacksmiths are ordering crucibles, and inquiring if they can melt metal in their forge fires.

Every big roof and structure in the country seems to need Dixon's Silica-Graphite Paint; and as to pencils, we may have to hire a second-hand grain elevator and ship them in sacks.

The demand for special brazing crucibles and the antiflux brazing graphite, indicates a lively business in bicycles.

We hope the rose color of this article will not discourage any of your readers from sending in orders for anything in the Graphite line. They will be taken care of, and will be stamped with the rubber stamp "hurry" if so desired.

JOSEPH DIXON CRUCIBLE CO.

Enameline Growing.

J. L. Prescott & Co., the proprietors of Enameline, the well-known stove polish, will remove their New York offices from No. 11 Jay Street to the Gerken Building, corner of West Broadway and Chambers Street. This change becomes necessary on account of an enormously increasing demand for the product of this house. The new offices of Enameline are being elegantly fitted up with the latest improvements, and will be a credit to the owners of one of the most popular proprietary articles in the stove trade of America.

One of the features of the new offices will be the export department, to meet the requirements of the constantly increasing European trade, which has already reached enormous proportions.

The new offices will occupy the eleventh story of the Gerken Building, where the outlook from the windows is one of the most superb in the city of mammoth office structures. There is general gratification in the trade that Messrs. J. L. Prescott & Co. have secured offices in so central a location for not only the New York jobbers, but for their friends in all sections of the United States and Europe.

Brace Hayden, who was suddenly called to San Francisco by the death of Mr. Dunham, of the Dunham, Carrigan & Hayden Co., made his appearance in the Hardware Club on Monday last, and his right arm is still sore from the violent exercise it was compelled to undergo. Mr. Hayden is very popular in the trade and in the Club, where he has served as an efficient member of the board of governors from the beginning of the organization, and the news that he has definitely decided to make San Francisco his permanent home, will be received with sincere regret in the East. Mr. Hayden will remain in the city until after the Hardware Dinner.

The Hardware Dinner.

Chairman Clinch reports that the outlook for the great Hardware Dinner at the Waldorf-Astoria, New York, on the evening of Monday, February 21st, is very promising, and that the event gives indication of being one of the most successful of the annual dinners yet held. Senator Thurston and Representative Taylor have agreed to be present, and other well-known speakers will also be there. All of the boxes on the first tier have been taken, and a number also secured on the second tier. This is the first occasion on which the ladies have graced the Hardware dinners with their attendance, and this feature will add, of course, very largely to the interest.

The fire which destroyed the building at No. 65 Cortlandt Street, New York, on Monday, January 31st, did not in any way affect the parts and fittings for bicycle sundry departments of Robert H. Ingersoll & Bro., as these departments are located at No. 165 Washington Street. They are ready to fill orders for these goods. In their general departments, they give us authority to say, that although their business was temporarily interfered with, they are able to fill orders for watches right along, without delay.

A reference to the card of the Putnam Nail Co., Neponset, Boston, found on page 18 of to-day's issue, will show that this company have made "A New Departure," which is there explained. Because of the action of the National Hardware Association, they propose to sell direct to the general jobbers of the country, and all restrictions have been removed as to quotations to be made by the trade from ocean to ocean.

The C. R. Meres Heater Mfg. Co., Norwalk, Ohio, has been sold to its president, S. W. Owen. Its name has been changed to the Duplex Heater, and hereafter will be manufactured by the S. W. Owen Co., at their old stand. Their recent improvements and late patent, combining hot water supply, are making this system very popular. They report a largely increased trade. Their catalogues will soon be ready for distribution.

The recent meeting of the East Tennessee Hardware Association at Knoxville was a pleasant and profitable gathering. Several new firms were added to the membership. The next meeting of the Association will be at Rogersville, on May 8th. An interesting programme was carried out, and resolutions of respect to the memory of George E. Speck were adopted.

Situation Wanted.

POSITION wanted by an elderly man as salesman in a retail Hardware store; city or country; over twenty years' experience. Reference, Peter Duryee & Co., New York City. JOHN BARRETT, Hudson Boulevard, West Hoboken, N. J.

SITUATION wanted as superintendent, assistant or general foreman of machine works or factory. Have extensive experience in managing the manufacture of general and wood-working machinery, machine tools and bicycles; well up in modern machine shop practice, designing and draughting; successful in reducing cost and estimating. Address R U. S., care HARDWARE, No. 143 Chambers Street, New York.

BICYCLE repairer and builder would like position with Hardware house handling wheels. Capable to take charge of bicycle department entirely; can handle fittings. GEO. GOULD, No. 114 Freeport Street, Dorchester, Mass.

Side Line Wanted.

TRAVELING salesman wishes to add good selling line for Hardware, paint, cycle or general store trade. References; state particulars, and address "36," care HARDWARE, No. 143 Chambers Street, New York.

Agency Wanted.

A WELL-KNOWN Hardwareman, with a continuous experience of 20 years, desires to represent a few leading manufacturers as sales agent in this city, or would be willing to accept the position of purchasing agent for some corporation where his services would be valuable. Competency undoubted. Address B. B. B., care of HARDWARE, No. 143 Chambers Street, New York.

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GREAT WESTERN AND AMERICAN FILES.

They are Reliable and Staple, and are advertised as such.

We do not make use of Flash Advertisements to introduce Novelties.



We are not kept busy Shipping Samples in order to get our brands tried.

They are purchased and Used by Critical Mechanics throughout the World.

MATERIAL The Best. **TEMPER** Thorough. **TEETH** Sharp and Strong.

AND

Made in the Great Western and American branch factories of the LARGEST and BEST-REPUTED FILE CONCERN IN THE WORLD, a concern whose GUARANTEE IS A BOND.

NICHOLSON FILE COMPANY,

HEAD OFFICE,

PROVIDENCE, R. I., U. S. A.

4 FACTORIES. 3000 VARIETIES IN STOCK. 70,000 DAILY PRODUCTION.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Athens, Tex.—Miller & Carroll, Hardware, have opened store.

Berrien Centre, Mich.—A. J. Ford will open a new agricultural implement store.

Fitzgerald, Ga.—The Watt & Holmes Hardware Co. has been incorporated by James Watt and others, with a capital stock of $15,000.

Hillman, Mich.—The Hillman Hardware Co. has opened new store, with W. F. Devlin as manager.

Sturgis, Mich.—H. H. Feek, Hardware and tinware, has opened a new store on Nottawa Street.

Tonganoxie, Kan.—The Sephousen Hardware Co. has been incorporated by M. Senhousen, J. J. Senhousen, D. B. O'Brien and M. Jones. Capital stock, $1250.

Changes and Improvements.

Almena, Kan.—W. Malcolm, Hardware, sold to Ed. Burnap.

Alton, Iowa.—H. W. Minten, Hardware, succeeded by J. P. Steichen.

Bangor, Me.—Tyler & Conant, Hardware, etc., succeeded by C. M. Conant & Co.

Boyd, Minn.—Swan Bros., Hardware, etc., succeeded by E. N. Swan & Co.

Burt, Iowa.—John Kerr, Hardware, succeeded by Werner & Link.

Cadillac, Mich.—Cloud & Morgan, Hardware, store purchased by Morgan & Murray.

Centralia, Kan.—The Clippinger Hardware Co., reported sold to A. B. Clippinger.

Clarinda, Iowa.—Cox & Cross, Hardware, succeeded by Plank & Cross.

Danville, Va.—Hodnett & Vass, Hardware, etc., successors of Schoolfield, Vass & Co.

Ellsworth, Me.—P. H. Stratton has purchased the stock and store fixtures of the Hardware store formerly owned by the late James F. Davis in Main Street, and took possession immediately. Mr. Stratton will carry on the business.

Fremont, Neb.—The announcement of the sale of the large Hardware business of Theodore Huette & Son to Messrs. Hobbs & Jones of St. Louis, Mo., will be learned with surprise. An invoice is now being taken, and at its conclusion the new firm will take possession of the business. The firm of Theodore Huette has done business at the corner of Sixth and F. Streets for eighteen years, succeeding E. H. Barnard, Fremont's oldest Hardware business. The firm has always done a large business.

Grand Ledge, Mich.—J. Vandervolgan, agricultural implements, has sold business to J. Walsh.

Great Barrington, Mass.—Bennett & Hammer, plumbers, etc., succeeded by Hammer Bros.

Holland, Tex.—George W. Birchfield, Hardware and farm implements, has sold his entire business to C. J. Wilkinson.

Houston, Tex.—E. L. Wilson Hardware Co., Joe Simmons will sever his connection with that firm and establish a Hardware business.

Houston, Tex.—The Whittlesey Hardware Co., Nos. 309 and 311 Main Street, closing out entire stock, preparatory to going out of business.

Lisbon, Me.—C. B. Allen has purchased A. H. Macurda's Hardware stock and will continue business in the same place.

Los Angeles, Cal.—The W. C. Furrey Co., Hardware, etc., W. C. Furrey retires.

Louisburg, N. C.—The Gannaway Hardware Co., entire stock bought out by Louisburg Hardware & Supply Co.

Mabel, Minn.—Gilmore & Jones, Hardware, succeeded by Gilmore Bros.

Manchester, N. Y.—Oscar M. Humphrey, Hardware and stoves, moved stock to Caledonia.

Marquette, Mich.—The Hardware firm of I. E. Swift is building a warehouse for the larger pipe kept in stock on the old foundry lot adjoining the other buildings occupied by the firm.

Northville, Mich.—Yerkes & Harmon, Hardware, and A. K. Carpenter, Hardware, have consolidated, and will do business under the firm name of Carpenter, Yerkes & Harmon.

Paulding, Ohio.—The Hardware firm of Finan & Crain has dissolved partnership by mutual consent. Mr. Crain retires from the firm, and Mr. Finan continues the business at the old stand.

Peoria, Ill.—Tobias Bros., Hardware, reported to have sold out.

Phoenix, Ari.—H. E. Kemp Co., Hardware, succeeded by Henry E. Kemp Hardware Co.

Punta Gorda, Fla.—Sandlin & Earnest, Hardware, will move into new building which is being erected.

St. Paul, Minn.—Joe Michel has bought the business of McDonough & Bowers; James T. McDonough, agent; Theo. Michel, trustee, No. 747 Wabasha Street, St. Paul, Minn., dealers in Hardware, tinware, stoves, mechanics' tools, cutlery; also plumbers', tinners' and steamfitters'. The business will continue as James T. McDonough, agent; Joe Michel, proprietor.

Strang, Neb.—Kutch Bros., Hardware and agricultural implements, succeeded by S. S. Pennel.

St. Stephen, Ala.—W. A. Moseley & Co., Hardware, etc., closing out.

Sycamore, Ohio.—Hurd & Beebe, Hardware dealers, have sold to E. C. Crosby, of Delta. The stock is being invoiced, and Mr. Crosby will take possession as soon as this work is completed.

Tipton, Neb.—J. N. Russell, of the firm of Shortle & Russell has sold his interest in the Hardware firm to Frank Mahan.

Troy, Kan.—Culp & Hautzenrader, Hardware, etc., succeeded by Hautzenrader & Dubach.

Watertown, Conn.—F. E. Wheeler & Co., stoves and tinware, succeeded by F. L. Hitchcock.

Waterbury, Conn.—Norman Cottielle Co., Hardware, will move to Thompsonville.

Weimar, Tex.—L. Fahrenthold, dealer in stoves, tinware, pumps, windmills, etc., has sold out his business to G. Buske.

Wills Point, Tex.—Perry Bros. & Rice, Hardware, succeeded by Blanks & Russell.

Business Embarrassments.

Appleton, Wis.—The Hardware firm of Huetter & Petersen have assigned to August Ruhlander. The firm's assets are $10,000, and its liabilities $8000. The failure was due to slow sales. Milwaukee and Chicago houses are the principal creditors.

Boston, Mass.—James O'Brien, Hardware, etc., reported to have made an assignment.

Butler, Pa.—Henry Beihl, dealer in Hardware, has made an assignment. Liabilities, $6000, with assets not given.

Chester, Pa.—H. B. Taylor, Hardware, has made an assignment to D. F. Rose. Liabilities will not exceed $20,000, and an arrangement is likely to be made whereby he can continue business.

Dayton, Ohio.—George E. Winter, successor to Wust & Winter, dealer in Hardware, stoves and tinware, at Nos. 8 and 10 Valley Street, in North Dayton has filed a deed of assignment to John W. Clark. The assets and liabilities are equally estimated at $2000.

Dayton, Ohio.—John H. Welsh and Moses E. Collins, Hardware, have made an assignment. Estimated assets, $3500; liabilities the same.

Dunn, N. C.—The Lee Hardware Co. has made an assignment.

Jacksboro, Tex.—H. B. Hensley, Hardware, has made an assignment. Assets about $1200; liabilities not known.

Liano, Tex.—The Western Hardware Co. has gone into voluntary bankruptcy.

Spencer, Ind.—D. B. Cauble, Hardware dealer of this city, has made an assignment. Liabilities about $2000, with assets the same.

Trenton, N. J.—Ralph E. Hibbard, plumber, etc., reported to have made an assignment.

Recent Fires.

Amsterdam, N. Y.—Ray J. Morgan & Co., Hardware, destroyed by fire; insured.

Dennison, Tex.—Pollard, Hoerr & Co., Hardware, damaged by fire, at a loss of $10,000.

Holly, Mich.—Nicholson's Hardware store, damaged by fire.

Ionia, Mich.—H. B. Webber & Co., Hardware, damaged by fire, at a loss of $12,000; insured for $9000.

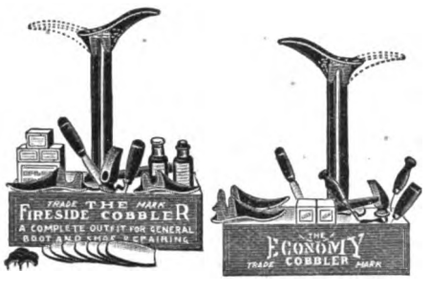
Morganfield, Ky.—H. L. Mart & Bro., Hardware, etc., damaged by fire at a loss of $20,000, with no insurance.

Temple, Tex.—T. L. Hollingsworth, Hardware, damaged by fire, at a loss of $150; insured for $5500.

Wharton, Tex.—G. C. Gifford, Hardware destroyed by fire.

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"A Box of Ammunition for the Battle of Economy."



These two Outfits, the "Fireside" and "Economy" Cobbler are **GREAT** and **POPULAR** sellers,—just the thing for the times. Send for list and prices of our **FULL LINE OF COBBLERS' SETS**, "Buckeye" Iron Lasts and Stands and "Plymouth Rock" Halfsoles.

. For Sale by all up-to-date Hardware Dealers. .

THE ROOT BROS. CO.,

Originators and Sole Mfrs. **Plymouth, Ohio.**

BIG SELLERS!



"Family" Shoe, Harness and Tinware Repairing Outfits.

EVERY FAMILY WANTS ONE.

Sold by all wide awake Hardware and General Store Keepers. . . . .

BRANDENBURG & CO., Chicago, Ill.

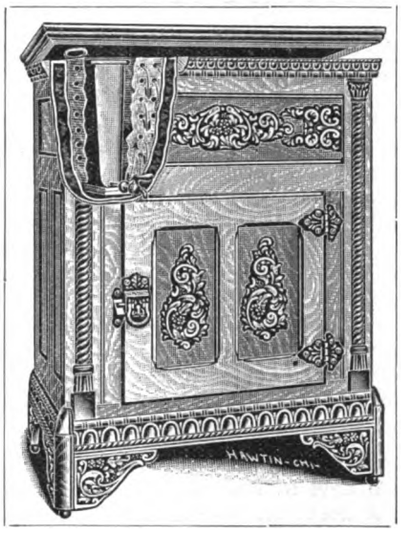
MANUFACTURERS AND SOLE PROPRIETORS.

PRICES ON APPLICATION.

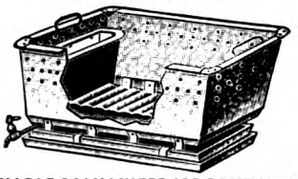
Best Class Trade From Hardware Line.

Sager Mfg. Co., Rochester, N. Y. [*Bicycle Saddles and Specialties*]: We have received a large proportion of the best class of trade from the Hardware line. We always regard it advisable to dispose of our goods wherever we can do so to advantage. We see no reason why the Hardware trade should be excepted. . . . . .

The Gurney can be kept absolutely pure and clean



BY THE USE OF THE



REMOVABLE GALVANIZED ICE COMPARTMENT.

The Gurney Leads, Others Follow. . . .

All users testify to the GURNEY'S many points of superiority.

The trade took to the GURNEY as criterion for style and finish.

Manufacturers testify to the GURNEY'S right of leadership by imitating the GURNEY style of construction.

Buy the Gurney Patent Refrigerator. It costs no more than imitations claimed to be "*Made like the Gurney.*"

GURNEY REFRIGERATOR CO., FOND DU LAC, WIS., U. S. A.

Also Mfrs. of La Belle and Imperial Refrigerators. Capacity 150 Refrigerators per day.

New York City, Isaac Lang, Agt., 265 Cleveland St., Brooklyn, N. Y. . . . Boston, J. Theo. Gurney, 1074 Boylston St.

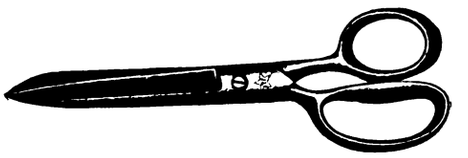
Kearney & Foot Co.

Manufacturers of the 100-102 Reade Street, New York.

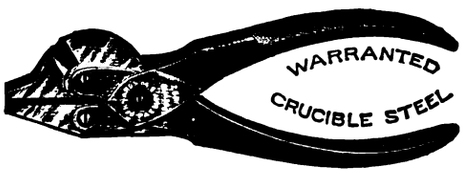
BEST FILES AND RASPS IN THE MARKET.

SEND FOR CATALOGUE AND PRICES.

Write for 1898 . . . Catalogue.



·HARDWARE SPECIALTIES·



THE **WM. SCHOLLHORN CO.,**

NEW HAVEN, CONN.

WATCH THIS SPACE,

AS IT WILL CONTAIN SOMETHING OF VALUE TO

HARDWAREMEN.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over, are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Big Rapids, Mich.—Herrendeen & Co. have formed a company for the manufacture of sheet iron stoves.

Camden, N. J.—The Davis Hartman Co. has been incorporated to manufacture metal castings.

Chicago, Ill.—Extension Handle Co. Capital, $2000; to manufacture bicycles, vehicles, etc. Incorporators: William H. Gole, Harry A. Gole and Ralph R. Bradley.

Chicago, Ill.—National Shovel Works & Stamping Co. has been incorporated by F. A. Sanford, George Mangson and R. T. J. Martin. Capital stock, $100,000.

Chicago, Ill.—Universal Bander Co. has been incorporated, to manufacture tools, machinery, etc. Capital stock, $20,000.

Cleveland, Ohio.—The Crown Computing Scale Co., composed of Cleveland men, has been incorporated with $10,000 capital. The following officers have been selected: Clifford A. Neff, president; Ira L. Beary, treasurer; John D. Erthel, manager and secretary, and Dumas Pejawo, superintendent. Mr. Pejawo is the inventor of the computing scale.

Detroit, Mich.—The Michigan Heater Co. has been incorporated, with a capital stock of $15,000.

Detroit, Mich.—The Sun Vapor Stove Co. has been incorporated by E. G. Mummery, W. G. Hastie, R. S. Sutton and N. S. Wright; to manufacture vapor stoves. Capital stock, $100,000.

Indianapolis, Ind.—The plant of the Indianapolis Stove Co. is now about completed, and is one of the largest establishments of this character in the West. The company is preparing to manufacture every article in the way of furnishings for stoves. This will require considerable increase in force, and when in full operation the company will give employment to at least 400 people. Manufacturing stove furnishings is a new undertaking of this company. The company has its own electric plant, and at night, when the large foundry and the stock manufacturing department are lighted up, it gives one some idea of the size of the works, and gives that part of the city a thrifty appearance.

Knoxville, Tenn. — The Knoxville Tinware Mfg. Co. has been organized, and established a plant for the manufacture of all kinds of tinware.

Menominee, Mich.—Marinette (Wis.) capitalists have subscribed $300,000 and organized a stock company to carry on the manufacture of farming implements. The big plant of A. W. Stevens & Co., at Auburn, N. Y., is to be removed and located in Marinette, just across the river from this city.

New York City, N. Y.—Spiral Nail Co. Capital, $5000. Directors: John Carnrick and Albert Cardozo, Jr., New York City; A. H. Brundage, G. A. Kay and F. E. Baird, Brooklyn.

San Francisco, Cal.— Myers Stove Co. has been incorporated by John F. Myers, W. R. Myers, F. A. Hatch, Jacob E. Troviel and W. H. Jordan. Capital stock, $20,000.

St. Louis, Mo.—The Columbia Lead Co. has been incorporated by H. J. Cantwell and others. Capital stock, $35,000.

Wytheville, Va.—F. Reed will manufacture a steel range, recently designed.

Changes and Improvements.

Albany, N. Y.—Rathbone, Sard & Co.'s stove works have resumed operations.

Anderson, Ind.—The Middletown Tin-Plate Works have resumed operations.

Lowville, Ky.—S. D. Nevins has bought the Lowville Iron Works of the receiver, Dr. A. H. Gebbie. Mr. Nevins is a practical machinist.

Thompsonville, Conn. — Arrangements were completed recently by the Board of Trade for the removal here of the Norman Cottielle Co. of Waterbury. The transfer will be made at once. The company employs fifty hands and manufactures Hardware.

Recent Fires.

Chicago, Ill. — F. C. Austin Mfg. Co., makers of agricultural implements, destroyed by fire at a loss of $60,000, which is covered by insurance.

Louisville, Ky.—B. F. Avery & Sons, plow factory, damaged by fire at a loss of $75,000. Loss fully covered by insurance.

Miscellaneous.

Alliance, Ohio.—The stockholders of the Salem Wire Nail Co. held their annual meeting and elected the former board of directors and officers. The company owns three wire nail mills, one located at Salem, one at Findlay and one at New Philadelphia. The one at Salem has been shut down, but will soon start up. The company about six weeks ago submitted a proposition to sell these plants to the American Steel & Wire Co., which is endeavoring to effect a consolidation of all the wire nail mills in this country. The proposition has not as yet been accepted.

Anderson, Ind.— The Anderson Iron & Bolt Co., of this city, have reorganized, Major C. T. Doxey retiring as president. His successor is Geo. Nichol, of this city. At a meeting in Cleveland this factory became a member of the trust. It was one of the largest plants to hold out against the combination, and employs 200 men.

Bloomington, Ill. — The stockholders of the Bloomington Stove Co. have held their annual meeting. The reports for the year showed business in good condition. Directors were elected as follows: William Van Schoick, Henry Heyer, Ed H. Miner, Henry Chrisman and Mont Evans. The directors chose the following officers: President, William Van Schoick; treasurer, John W. Evans; secretary and superintendent, Henry Heyer.

Chattanooga, Tenn.— The Chattanooga Stove Works are running full time at present, the demand for their product having been unusually good during the past three months. The force has been increased.

Defiance, Ohio.—At a meeting of the stockholders of the Clipper Plow Co., the following directors were elected: Frank Seither, Cleveland; Henry Seither, William Martin, E. W. Hoffman and C. C. Hoffman, Defiance. The old officers were re-elected for the coming year as follows: Henry Seither, president; William Martin, vice-president; C. C. Hoffman, secretary and treasurer.

Denver, Col.—General Passenger Agent Hooper of the Denver & Rio Grande road recently received a copy of the photograph of the famous Hardware train sent out from Denver to Telluride over the Rio Grande. In dimensions the picture is about four and a half by one and a half feet. It is clear, showing every detail of the train, the seventeen cars composing the train, with their banners and bunting, against the dark background of rocks. The picture was taken near Howard's, a station about fifteen miles this side of Salida.

Easton, Pa. — The stockholders of the Phillipsburg Stove Works have re-elected these directors: L. E. Mattes, B. F. Riegel, W. E. Buckman, S. C. Pursell J. M. Hackett, W. M. Davis and John Maxwell. The directors organized by electing Mr. Maxwell president and treasurer and Mr. Buckman secretary. The officials deny any knowledge of a report to the effect that a new company had been formed and made an offer for the plant.

Marietta, Ohio.—The Westford Mfg. Co. shipped 5000 plow handles to the Empire Plow Co., of Cleveland, recently. They have another order of 4000 to be filled for the Empire Co. For some time past it has been necessary for Messrs. Grubb and Kraps to run extra hours, and yet they are unable to keep up with their orders.

Pueblo, Col.—Solid train loads of freight of different sorts have been coming from the various Western Slope points of late, but seldom is it that a solid train goes into the mountains of Colorado. Recently, however, nineteen narrow gauge cars loaded with Hardware and agricultural implements for a Hardware company, left Pueblo over the Rio Grande. They were gayly decorated and attracted not a little attention, since the entire train will go through to Durango and Telluride.

Springfield, Mass.—Smith & Wesson, the revolver manufacturers, have posted notices stating that as fast as each man finished the piece work in progress his services would not be required until further notice. This means that in a few weeks the works will be entirely shut down. The reason for stopping is that there is a large stock of revolvers without a sufficient market.

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THE BANNER

OIL HEATERS

Will take the chill off a room in a few minutes.



No Smoke, No Odor, or Chimney.

The same this year as in previous years.

A perfect success then, and a perfect success now.

2 feet 3 inches high.

Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

MADE BY

New York. Boston. Chicago. **Plume & Atwood Mfg. Co.,** FACTORIES. Waterbury and Thomaston, Conn.

"Copperized" o. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

Hot & Cold Rolled Steel.

Main Office, R. Ling Mills and Factories,

BRIDGEPORT, CONN.

Hastings & De Baun,

HARDWARE MANUFACTURERS' AGENTS,

124 Chambers St., New York.

NEW YORK OFFICE OF

THE PHOENIX HARDWARE MFG. CO.
MASON & PARKER. J. B. TATEM & SON.
THE BARNES TOOL CO. E. LOUD MFG. CO.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

A. N. JACOB, 491-493 Broadway, NEW YORK.

GEO. F. TAYLOR'S SONS,

80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

ALSO

BONE BLACK

For Tempering, Coloring and Filtering Purposes.

OPERA GOWNS SPOTTED.

Something Broke Over One of the Lobby Doors and Showered Grease.

While the audience at the Metropolitan Opera House was filing out of the theatre last night somebody gave one of the doors opening from the lobby into the street a sudden jerk, the force of which exploded the arrangement at the top of the door which prevents the door from slamming.

The report was as sharp as a pistol shot, and following it was a shower of brown grease, which spattered a number of fine gowns.

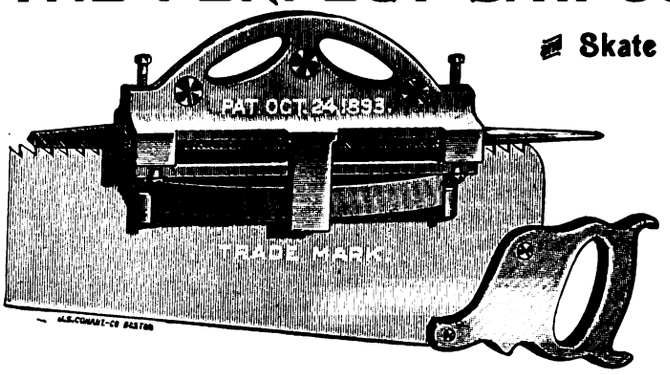
—*New York Sun, January 25.*

Of course, it was NOT an Eclipse Check.

The Eclipse is an **Air Check**; it cannot burst, it does not freeze and cannot shower grease. The Eclipse is made by Sargent & Co., New Haven, New York, Philadelphia and Boston.

THE PERFECT SAW JOINTER

Skate Sharpener.



Adjustable to any thickness of blade. . .

Uses any common file.

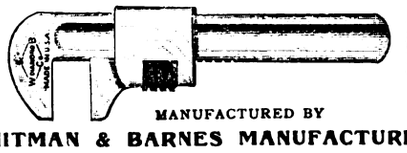
Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H**

"Diamond" Bicycle Wrench.

Length over all - - 5½ in.
Opening bet. Jaws 1⅛ in.
Weight - - - 6 ozs.



This wrench is Drop Forged from a good quality of steel, Nickel Plated, Hardened Jaws and is very quick acting.

Secure our prices. . .

MANUFACTURED BY

THE WHITMAN & BARNES MANUFACTURING CO.,

New York, N. Y. Akron, O. Cincinnati, O. Chicago, Ill. Kansas City, Mo. San Francisco, Cal.

HARDWARE DEALERS

It will pay you to handle our Roofing Cement. Put up in fancy cans, 3, 5, 10, 25 and 100 lb. cans. Write

BROWN BROS.,

Made in all colors. Montgomery, N. Y.

Geo. P. Marks & Co.,

HARDWARE MANUFACTURERS' AGENTS.

Representing Leading Manufacturers.

(Accounts Solicited.)

304 Magazine St., New Orleans, La.

"DAILY FEEL THE BENEFIT."

Energy Mfg. Co., Philadelphia, Pa. [Dumbwaiters]: We daily feel the benefit of our card in your columns.

HAGAN'S

TRADE MARK.



BULL DOG

LEATHER.

Bull Dog Lace Leather the best on earth. . .

JOHN C. HAGAN & CO.,

Manchester, Virginia, U. S. A.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Chicago, Ill.—Extension Handle Co. has been incorporated by William H. Gole, Harry A. Gole, Ralph R. Bradley, to manufacture bicycles, vehicles, etc. Capital stock, $2000.

Cordele, Ga. — William Fitzsimmons, of Clinton, Ill., has purchased a site on which he will erect a bicycle factory and novelty works.

Denver, Col.—The Smith Cycle Co. has been organized for the manufacture of chainless wheels in Denver. This is the first company to embark in the chainless business here, and proposes to compete very successfully with chainless wheels made in the East. Officers have been elected as follows: President and general manager, W. D. Smith; vice president, Dennis Sullivan; secretary, S. S. Downs; assistant secretary, M. H. Van Fleet; treasurer, William Prackwinkle; attorney, John M. Maxwell.

Gilmerton, Va.—A company of capitalists from Maine have located a plant on the Choate farm, on the Southern branch, adjoining Gilmerton, and will manufacture bicycle crates, etc.

Hamburg, Pa.—Wilhelm Bicycle Works incorporated, with a capital stock of $50,000.

Lanes, Ill.—Lane & Co., sporting goods, etc., have opened a new store.

Marion, Ind.—The Frank Krein Mfg. Co. has been incorporated by Frank Krein and others, to manufacture chains, etc. Capital stock, $100,000.

Newberry, Pa.—The new bicycle shop of the Ames Bros. Repair Co. is nearly completed. They have built a large two-story factory and are about ready to begin their season's work. One of the departments is fitted up as a nickel-plating room; another is an enameling room, while the main part of the building will be used as a repair shop and factory. A new engine and boiler were put in during the winter, and yesterday, for the first time, fire was put under the boiler and the engine started. Newberry can now claim the ownership of at least one bicycle factory.

Pittsburg, Pa.—The Sidwell Pedal Co. has been incorporated, with a capital stock of $60,000.

Rocky Mount, N. C.—Jones & Knight have opened a bicycle repair shop at the Lancaster building, Tarboro Street.

San Francisco, Cal.—The Columbian Supply Co. has been incorporated by Alfred Fuhrman, Thomas J. Neslan, Carl W. Muller, John Heenan, P. B. Donahor, to deal in bicycles, etc. Capital stock, $100,000.

Sayre, Pa.—The Collins Pneumatic Hub & Wheel Works has been incorporated, with a capital stock of $200,000.

Trumansburg, N. Y.—The Morse Chain Co. has been incorporated by E. F. Morse, F. L. Morse, E. T. Turner and H. H. Westinghouse.

Changes and Removals.

Beaver Falls, Pa.—Unique Mfg. Co., successors to Morado Bicycle Co, have purchased the machinery of the latter, and removed it to a more commodious location, on the water power at Beaver Falls. The new company are manufacturing the Morado and Unique bicycles.

Bradford, Pa.—B. L. Fellows & Co., bicycles, sporting goods, etc.; business purchased by H. A. Harvey.

Doylestown, Pa.—Pollock & Ruos, manufacturers of bicycles, succeeded by Henry D. Ruos.

Gainesville, Fla.—Neff & Graham, bicycles, reported to have been succeeded by George Graham.

Kenneth Square, Pa.—John M. Chalfant, wholesale and retail Hardware, sporting goods, bicycles, etc., improving and enlarging store.

Macomb, Ill.—F. A. Whitman has sold his bicycle hospital and repairing outfit, together with his other tools and business, to Luther Cale. Mr. Whitman has been in the repairing business for eleven years, and during that time has built up a good trade and reputation for good work.

Morristown, N. J.—J. H. Carlson, bicycles, reported to have been succeeded by J. H. Carlson Bros. Co.

New Haven, Conn. — The firm of C. Cowles & Co., Water Street, has absorbed the business formerly conducted by the Bishop & Benton Co., in making the B. & B. bicycle stand. The Bishop & Benton Co. dissolved last week. Cowles & Co. are filling a large number of good orders from abroad, and their domestic trade in the stands promises to be excellent.

New Haven, Conn.—The Seamless Rubber Co. has increased its capital stock from $100,000 to $130,000.

New York, N. Y.—Dr. Heinrich Traun, Excelsior Rubber Works, succeeded by Traun Rubber Co.

Norwalk, Conn.—Fred S. Ambler, dealer in bicycles and sporting goods, has sold out his branch store in New Canaan to his former manager, Geo. H. Stevens, who will continue under his own name.

Paterson, N. J.—Healy & Browne, bicycles, reported to have dissolved.

Redlands, Cal.—C. G. Gaylord, bicycles, reported to have been succeeded by Furst & Barnum.

Sandusky, Ohio.—P. L. Van Alstyne, bicycles, etc.; business purchased by F. J. Donahue & Co.

Recent Embarrassments.

Cleveland, Ohio. — Bowersox & Beck, manufacturers of bicycles, reported to have made an assignment.

Lexington, Ky.—The Vanarsdall Spoke & Wheel Co. has made an assignment. No schedule filed.

Milwaukee, Wis.—The Milwaukee Mfg. Co., manufacturers of bicycles, have made voluntary assignment. Assignee bonds were fixed at $50,000.

New York, N.Y.—The Hoffman Machine Co., manufacturers of bicycle parts, reported to have appointed a receiver.

Recent Fires.

Cortland, N. Y.—Cortland Wrench Co., manufacturers, destroyed by fire.

Philadelphia, Pa.—Albert. Bateman, bicycles, No. 457 East Girard Avenue, damaged by fire, at a loss of $300.

Philadelphia, Pa.—H. Kolman, bicycles, No. 1328 Fairmount Avenue, damaged by fire, at a loss of $500.

Reading, Pa.—Star Machine Screw Co., manufacturers of bicycle parts, damaged by fire.

Miscellaneous.

Charleston, S. C.—The Southern Cycle Supply Co., No. 335 Broadway, are open for proposals for machinery and supplies for bicycle works.

Cincinnati, Ohio.—At the annual meeting of the stockholders of the Alpine Safe & Cycle Co., the following directors were elected: J. R. Kinsley, A. J. Conroy, Joel C. Clore, M. K. Allan and George D. Allan, they being also all the stockholders of said company. The directors organized by electing J. R. Kinsley, president and general manager; A. J. Conroy, vice president; Geo. D. Allan, secretary and treasurer.

Denver, Col.—Charles P. Conrad, a machinist, employed at the bicycle factory of C. H. Myers, has invented and patented two important bicycle improvements. One is a combination coasting sprocket, and the other is a brake. The coasting device enables the rider to release the rear wheel from the control of the chain by simply stopping the pedals. The rear wheel continues to revolve, but the pedals remain still. To reapply the power it is only necessary to push forward on the pedals. The brake device is a steel spool, covered with rubber just back of the saddle post. Its axle bears on a metal roller, at each end, which rests on the bars of the lower part of the frame. The brake is set by reversing the pedals and the wheel is released by pushing forward on the pedals.

New York, N.Y.—The firm of A. S. Baker & Co., of the Produce Exchange, this city and London, has recently closed a contract for 10,000 bicycles for shipment to Europe, deliveries to be made monthly during the season of 1898. One shipment has already been made. This is said to be the largest transaction of the kind in the bicycle trade that has transpired for more than a year past, and indicates that the American wheel is fast taking the lead and only needs to be properly handled in order to overcome any possible competition abroad.

Pittsburg, Pa.—The Shelby Steel Tube Co., with a capital stock of $5,000,000, is licensed to transact business in Illinois, with a capital of $2500.

Springfield, Ohio.—The Visitor Rubber Tire Co. has increased its capital stock from $10,000 to $50,000.

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Bells of all Description.
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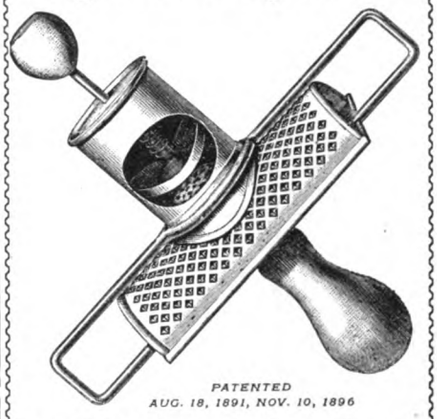
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WAS THE
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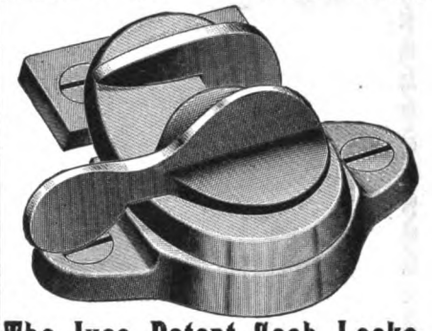
Rings loud and clear like an electric bell.
The faster the speed the sharper the alarm.
Rings on the slightest pressure of the button.
Needs no care.
Never wears out.
Quickly adjusted to any wheel.
Strong, Simple.

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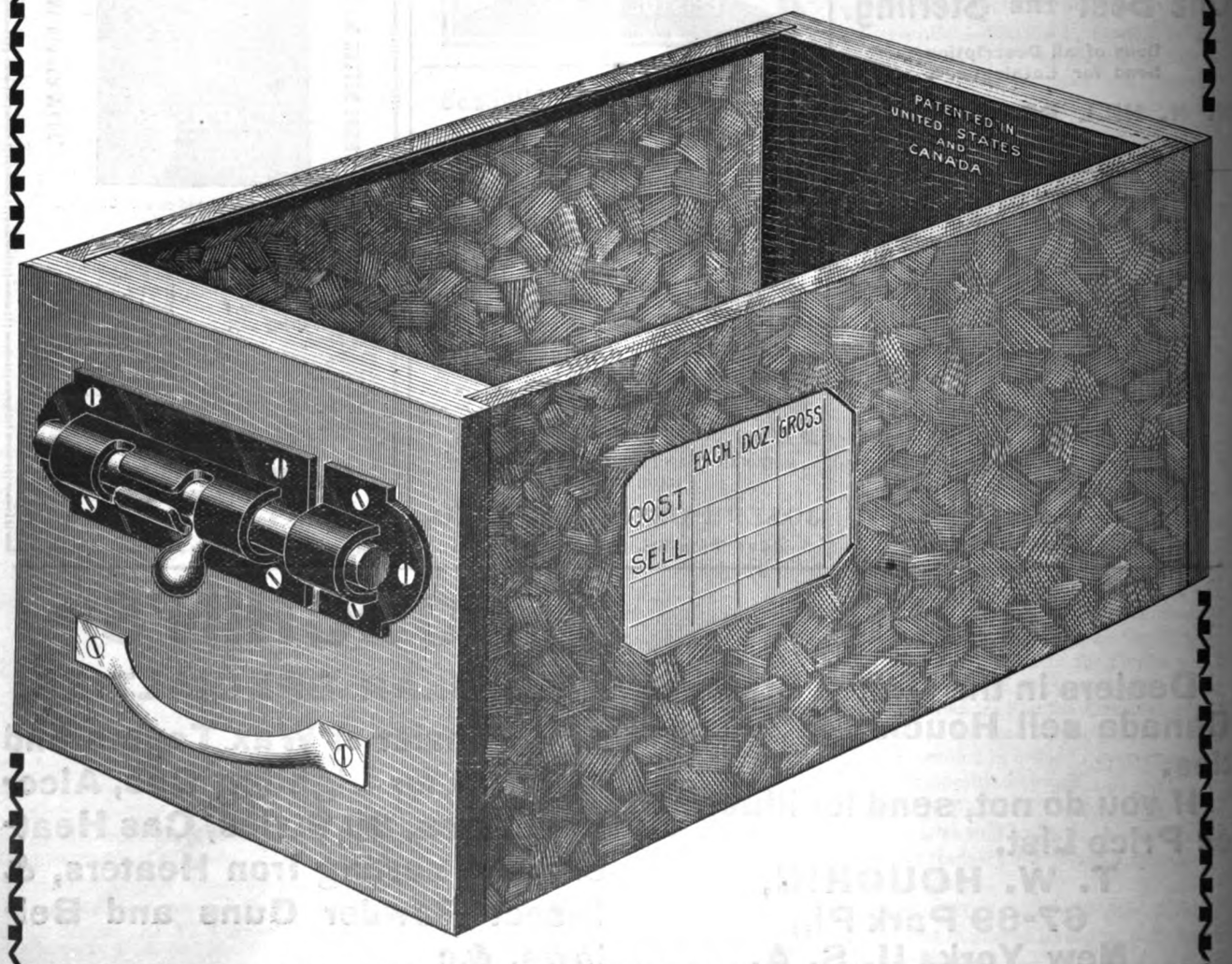
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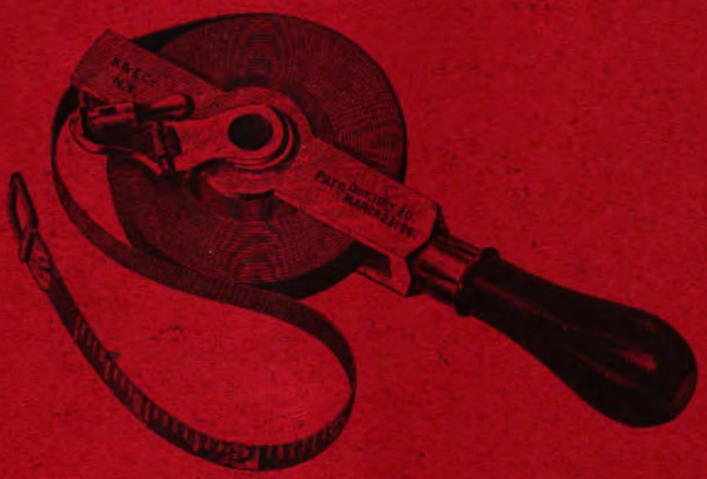
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Easy to Clean.

MAKE NO MISTAKE!

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Elegant Styles. Raised Carvings. Solid Ash. Antique Finish. Established Reputation Demanded by the People.



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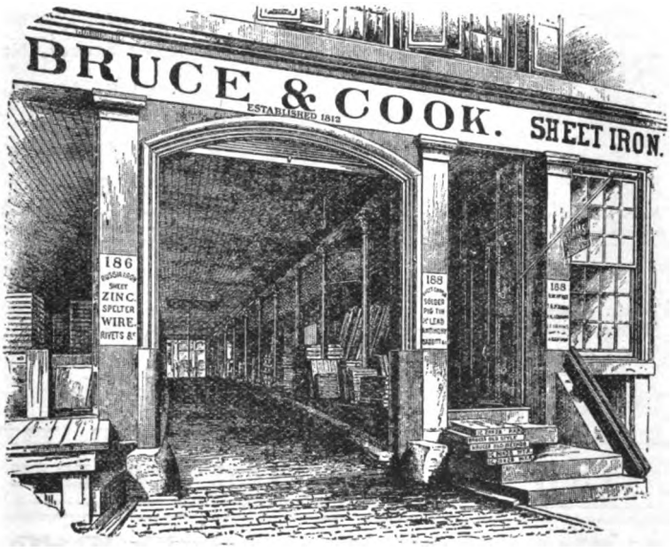
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Eave Trough Leaded.
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Elbows--Stove Pipe.
Elbows--Adjustable.
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Gem Gasoline Furnaces
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Strainer Wire Cloth.
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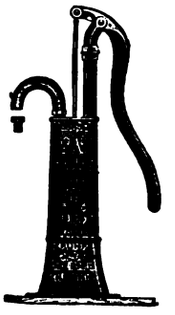
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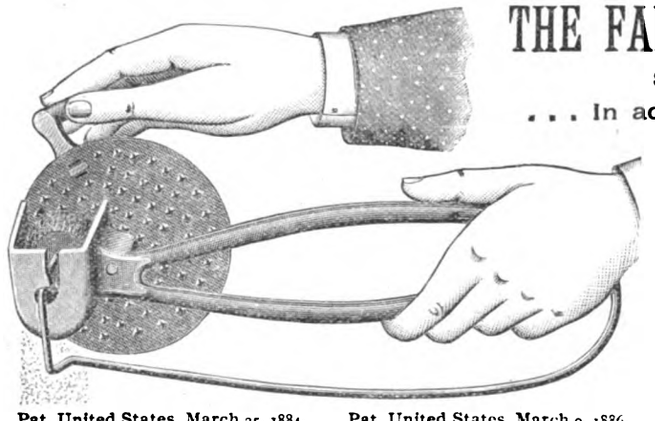
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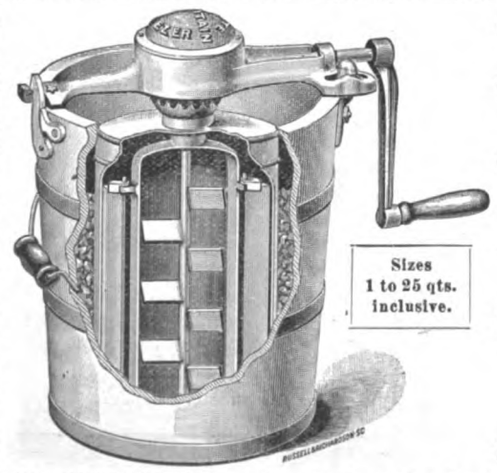
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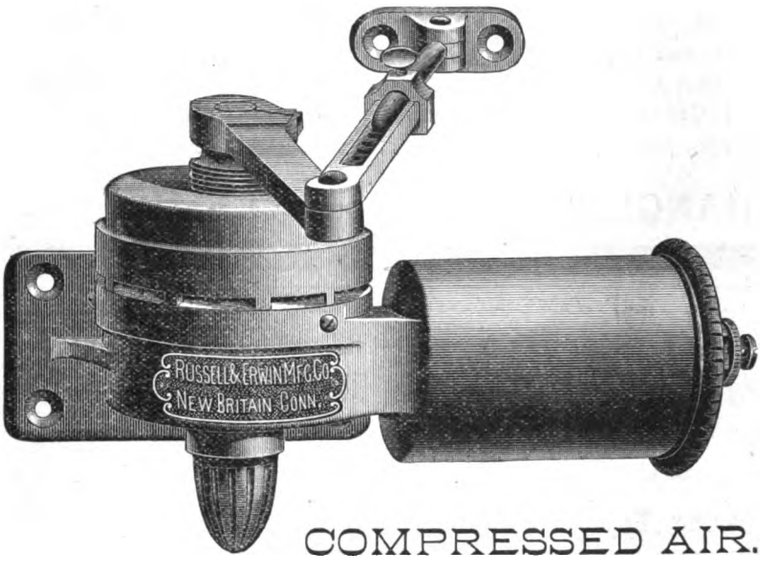
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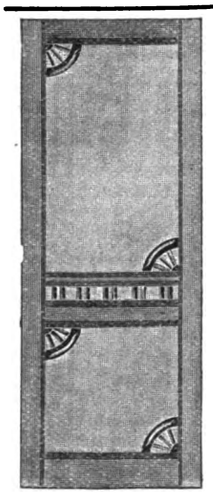
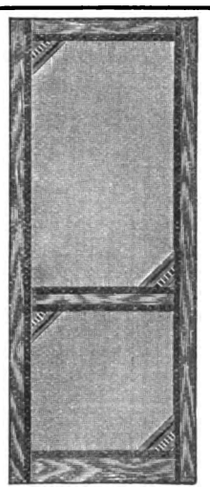
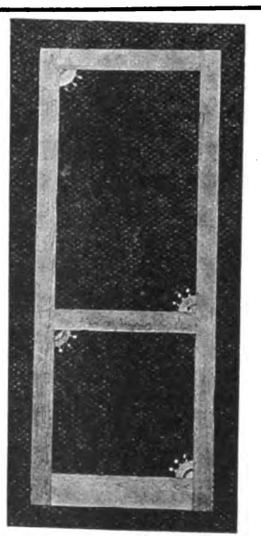
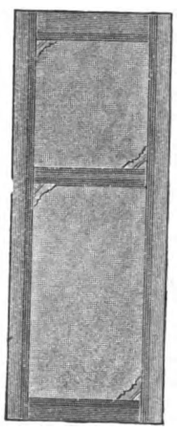
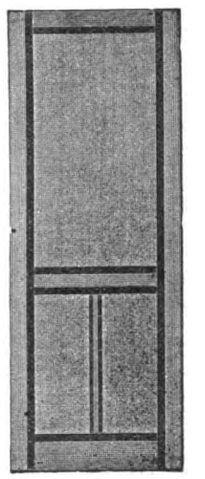
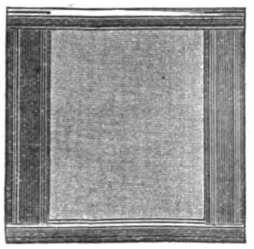
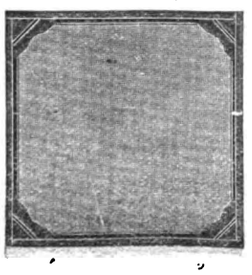


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COMPRESSED AIR. NO LEAKAGE.

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PHILLIPS' SCREEN GOODS

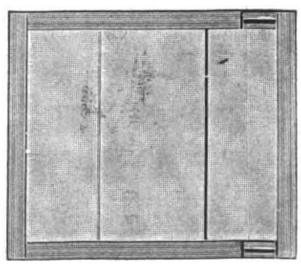
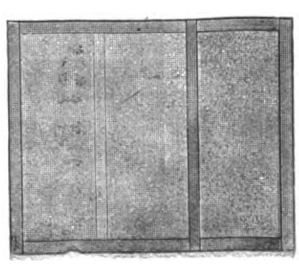
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Where quality is considered as well as price, these goods are apt to have the preference. They are not rough. They are not "hustled," nor are they "degenerated" from other people's patterns.

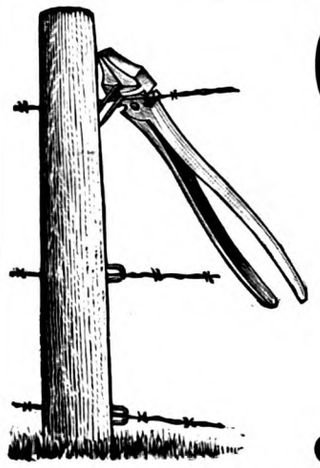
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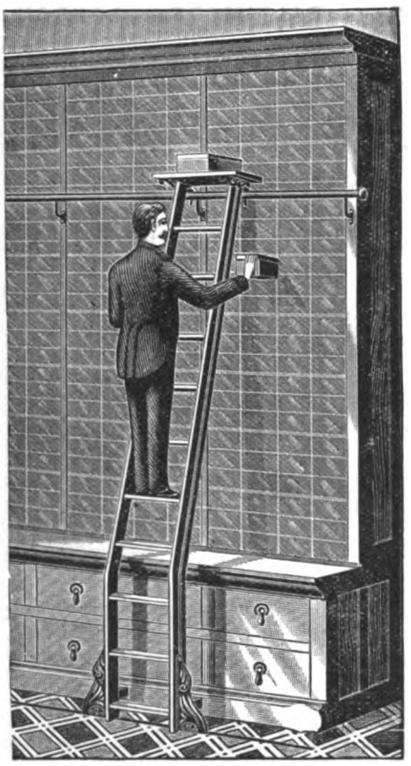
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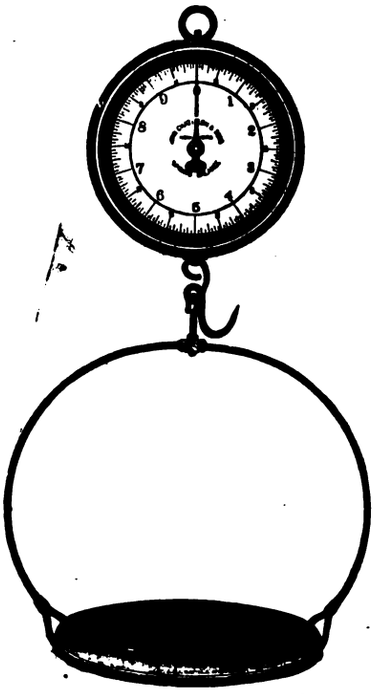
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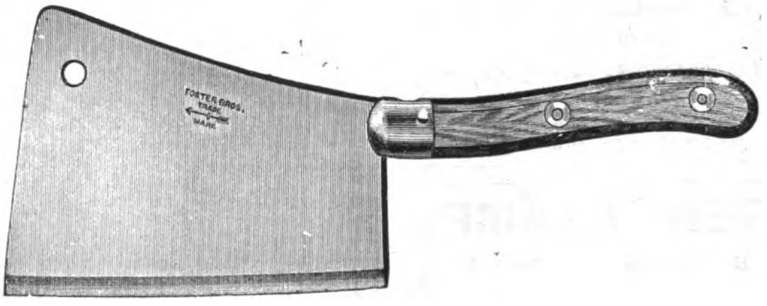
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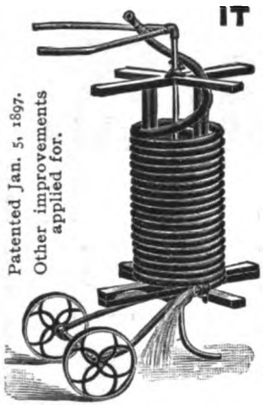
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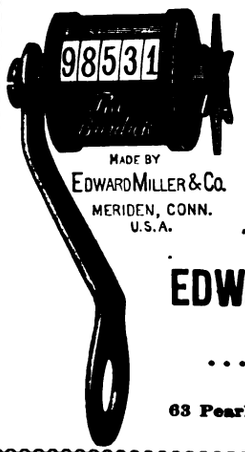
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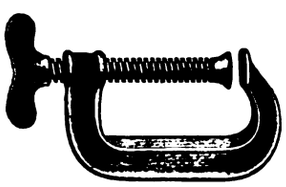
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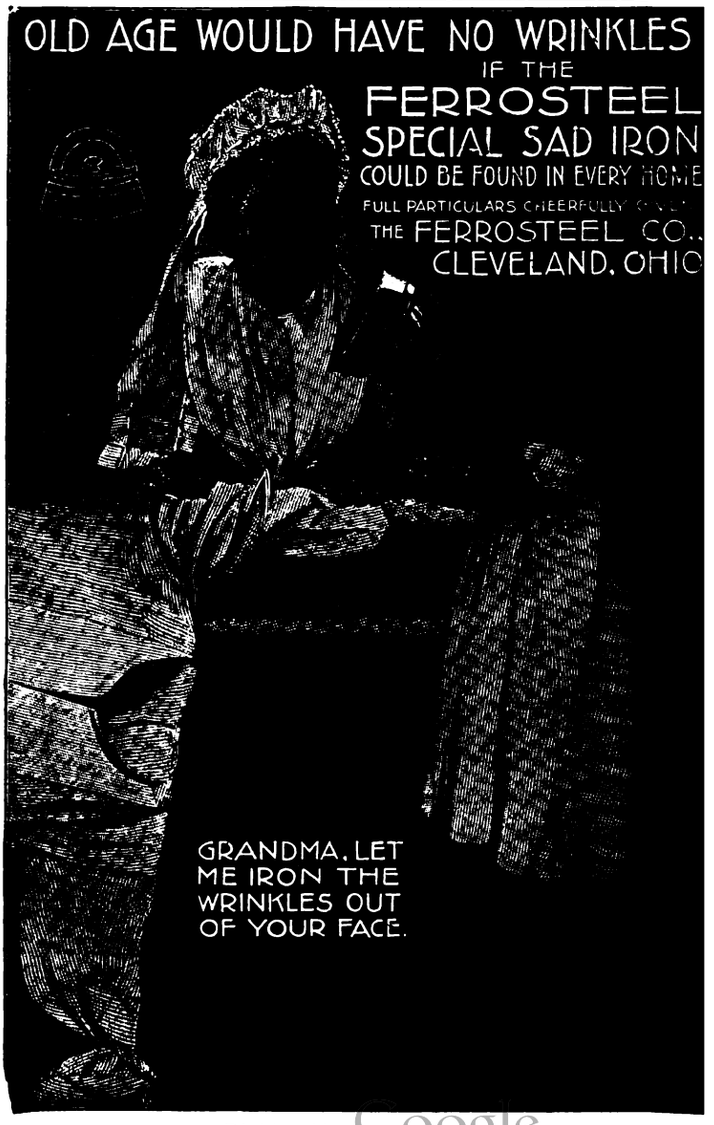
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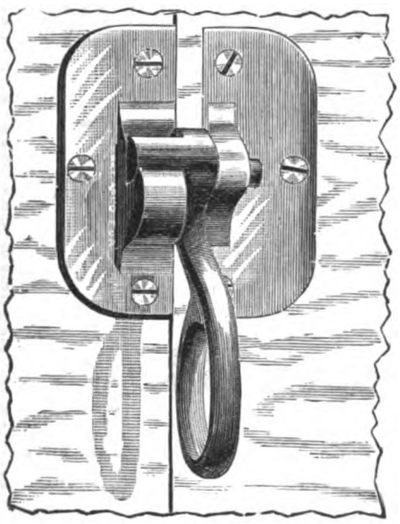
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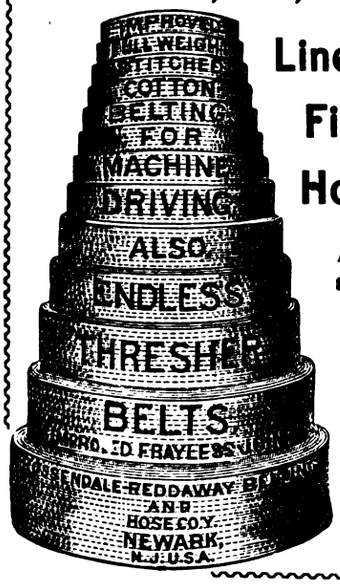
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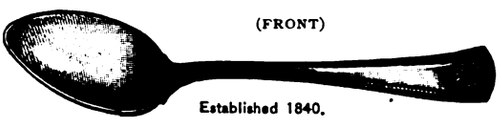
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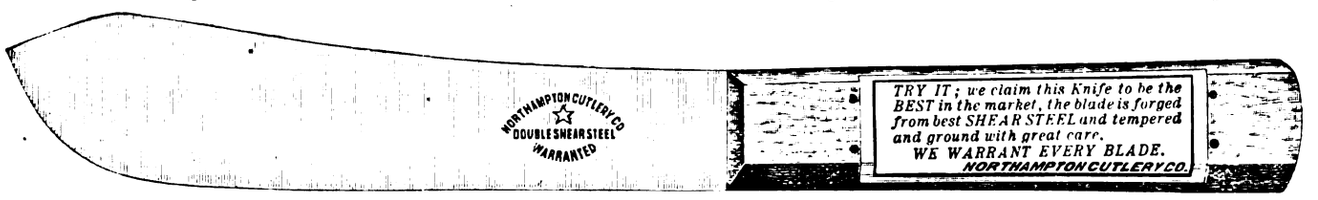
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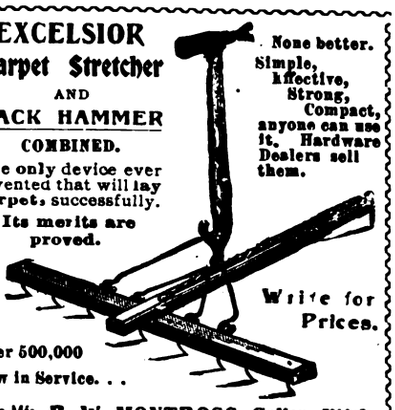
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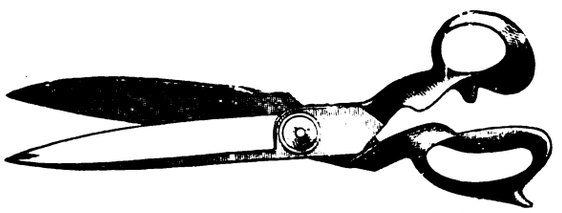
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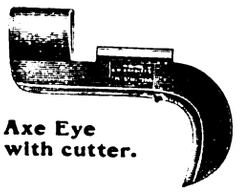
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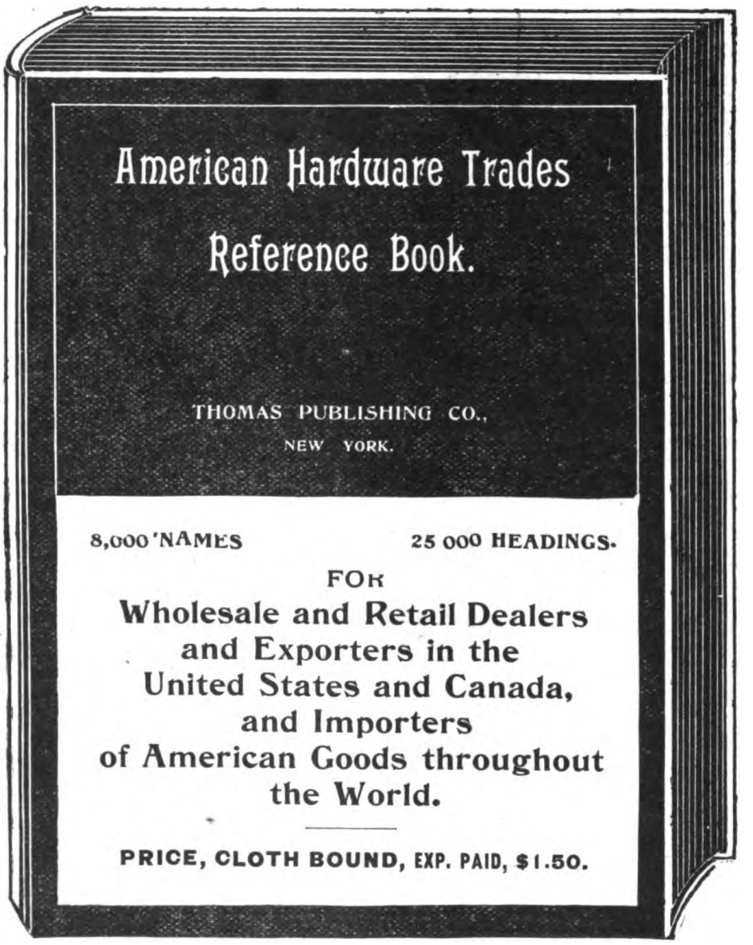
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OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

RIVETS and WIRE NAILS.

C. C. & E. P. TOWNSEND,
New Brighton, Penn.

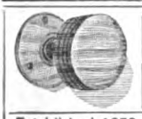
DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS


Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

ESTABLISHED 1854.
BOXWOOD AND IVORY
RULES.
STEPHENS & CO., Riverton, Conn., U. S. A.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads, &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application.


Established 1870.
SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
. . . Manufactured by
James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

What Every Family Needs.
Pure Washed Filteration Quartz, free from all mineral impurities. Can be used in any filter or through cloth. . . Sold only by
The New England Filteration Co.,
564 Washington Street, Boston.

Seed's Reversible Self-Cleaning . . . WATER FILTERS
BRASS, NICKEL PLATED.
No. A1 Per dozen, $4 00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
21 and 23 Centre Street, - - NEW YORK.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

TRAVELING salesman for first-class line of American pocket cutlery, on commission, in Missouri and Kansas, or Nebraska and Iowa. Address C. C., care HARDWARE, No. 143 Chambers Street, New York.

BY March 1st wanted a capable and industrious young man to run a Hardware store in western Pennsylvania. Give references and experience. Address care H. S. WEAVER, No. 438 Church Street, Indiana, Pa.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

A FIRST CLASS buffer wishes a position; is a first-class worker on Hardware and all kinds of metal; bicycles preferred; union shop if possible. OTTO DIETRICH, No. 7 Comes Street, Newark, N. J.

A YOUNG man, some experience as salesman, would like to engage with a reliable firm where he could learn the business, with view of representing them in the city and nearby trade. Chance of advancement looked for more than salary. G. H. Blanchard, No. 331 West Twenty-first Street, New York.

OFFICE MANAGER, fifteen years' experience in general Hardware business, familiar with all details of manufacturing Hardware specialties, correctly tabulating statistical information, man of ability, judgment and experience, expert financier, with good executive ability, rapid and original letter writer, practical turn of mind, quick, comprehensive and energetic, would like a position by February 1st; expectations moderate; highest integrity. Address A. B. C., office of HARDWARE, No. 143 Chambers Street, New York.

AN efficient and experienced lady stenographer and expert typewriter, is open for an immediate engagement. The highest references given. Address K. E. N., care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

WANTED by a practical mechanic with eighteen years' experience in the manufacturing of wood-working machinery and iron tools. Has had charge of machine shop for ten years and buying of supplies. A position as superintendent, assistant manager or traveling salesman. A1 references. Address H. A. CANT, Lancaster, Erie County, N.Y.

MAN, thirty-one years old, wants to change his position; nine years' experience in retail Hardware as bookkeeper, buyer and salesman. Experience on road. A1 city reference given. Moderate salary. Address LOCK, Box 34, Jeannette, Pa.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York, in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk or traveling salesman, by a young man. Twelve years' experience on the road, and in retail Hardware, cutlery and guns. Best references. Address SHIRES, Lock Box 308, Bedford, Pa.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and general Hardware finishing. Address J. G. K., No. 535 Park Street, N.Y.

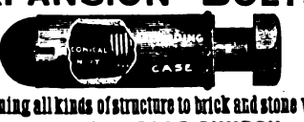
SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

EXPERIENCED traveling salesman, familiar with the jobbing trade, wants to better his future by connecting with a house where he can grow. Highest references from present employers. Salary not so much an object as an opportunity to show right house what he can do. Address "LANTERN," care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York.

SEVEN years with one of the largest and best knwon wholesale Hardware house on Chambers Street, N.Y. At present have one-half interest in retail Hardware and tool business. Will dispose of this January 1st, and will be open to an engagement as buyer, manager or any position from stock to bookkeeping. Make an offer if you are looking for an all round man. Age 27, references. TAYLOR, care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

DIE MAKER, A No. 1 practical die and tool maker, well up in all latest improved dies and tools for novelty and general Hardware, dies for blanking, drawing, stamping, forging, etc. for all sheet metals, as brass, iron, steel and aluminum. Well up in modern shop methods to increase production, also automatic dies, feeds, stops, etc. Can design and develop ideas, ten years' experience in best shops in Massachusetts and Connecticut. Age 30. Can accept January 1st, '98. Best references as to ability and character Address, DIE MAKER, care HARDWARE, No. 143 Chambers Street, New York.

WANTED, by a practical die and tool maker, a position as foreman or superintendent, familiar with typewriter, sewing machine, clock and bicycle work; has had experience at the bench, drawing board, and superintendent. Can handle men with good advantage and good results. Age 30. Can accept January 1st, '98. Best references. Address CONN, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A HARDWARE salesman desires a position in a first-class wholesale or retail Hardware store. Six years' experience. Good references. Will go anywhere. Address A. J. Y., BOX 208, Yarmouth, Me.

A FIRST class stove pattern maker wishes position in pattern shop-fast worker neat and artistic. Address GOOD MAN, care Hardware, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

POSITION by a young man in the wholesale Hardware business. Fine penman has had experience in marking freight also exeprience in the retail business. Salary no object to start with. Reference gilt edge. Address T. C. J., Box No. 37 Concord, North Carolina.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (foreigner) desires position in a Hardware house in this city; has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by man of 28, ten years' experience, wholesale and retail. D. W. SAYER, Westtown, N. Y.

AS Hardware salesman, or as helper with tinsmith, plumber or fitter has had considerable experience in each line. Age 24. Single and strictly temperate. Address, ORRIN MERRITT, Owego, N. Y.

WANTED by a practical mechanic, with a good education and 17 years experience in working iron and steel, managing help, buying of mil supplies, and office work, a position as superintendent or assistant manager. A1 references. Age 40. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man with 6 years' experience in some of the leading Hardware houses in Sweden and over 1 year in Brooklyn, desires position in some large house. Speaks and writes English, German and Swedish. Any terms, only give me a start, the best of references. AMBITIOUS, care HARDWARE, No. 143 Chambers Street, New York.

A FIRST class stove and furnace pattern maker wishes a position. Thoroughly understands the making, construction and designing of patterns and can do carving and mechenical drafting; am a fast and artistic worker, will work on trial for moderate wages. Address S. F. M., careHARDWARE, No. 143 Chambers Street, New York

BICYCLES, any firm wanting a manager or salesman for this department, or wishing to start such a department (no objection to helping out other ways) will find the right man by communicating with CAREY, No. 463 West 166th Street, New York.

SITUATION by an experienced metal pattern maker on locks, builders Hardware, iron toys and novelties. Familiar with up-to-date shop methods and competent to take charge. Address PATTERN MAKER, No. 92 Laurel Avenue, Bridgeport Conn.

POSITION wanted by thoroughly experienced man as Hardware salesman on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

TRAVELING salesman throughout New England and Middle States, with permanent address on Broadway, New York, would like novelties and lines of S. M. belts, oil or tailor's shears. Exclusive agency in above territory preferred. Address JOHN F. DOWD, No. 239 Broadway, New York City.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L, care Forest City House, Cleveland, Ohio.

TRAVELING salesman for Northern Europe, wants side line in fancy cabinet and building Hardware; highest reference, Address THOS. S. BUCKLEY, No. 119 East 128th Street, New York City.

Side Line Offered.

WANTED—Traveling salesmen visiting the wholesale Hardware and rubber trade to carry an up-to-date patented novelty as a side line. Send 50 cents for sample, post-paid. Address ORDNER MFG. CO., Cleveland, Ohio.

SALESMEN wanted to sell our line of snaps, chain goods and Hardware specialties on commission Expenses guaranteed to right parties. Sell to Hardware and harness trade. Give reference, territory and experience. IRA F. WHITE & SON, 76 Park Place, New York.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

To Let.

ONE of the finest rooms in Ohio, finished specially in hard woods for Hardware trade and used for such twenty-six years, may be enlarged to include tinware, plumbing and roofing. Rare opportunity. Address W. B. Carey, Salem, Ohio.

For Sale.

HARDWARE store twenty miles from New York; doing good business. Rare chance for a live man. Owner will give satisfactory reasons for disposing of same. Price, $3500. Address H. H. G., P.O. Box 2383, New York City.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

Hardware Specialty Agency Wanted.

A RELIABLE house on the Pacific Coast wants exclusive agency for Hardware and specialties on commission basis. A first-class chance for those who wish to extend their Coast connections. Address A. R. D., care HARDWARE, No. 143 Chambers Street, New York city.

Office Room to Let.

OFFICE and desk room to let on street floor; most desirable location on Chambers Street, including steam heat and porter's services. R. CHRISTENSEN, No. 88 Chambers Street, New York.

Wanted to Purchase.

WANTED to purchase a retail Hardware, house-furnishing, lumber, building material or coal business in a live, growing town, having a good location, doing a good business. State full particulars and price. JOHN R. SWARTZ, Hughesville, Pa.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



"ERIE" ALUMINUM

For Christmas "ERIE" ALUMINUM, The Finest Ware. GRISWOLD MFG. CO., Erie, Pa.

DUNBAR BROTHERS
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FROM
SHEET STEEL, STEEL WIRE, BRASS WIRE
BRISTOL, CONN.



BOOMER STEEL RANGE,
With High Closet.

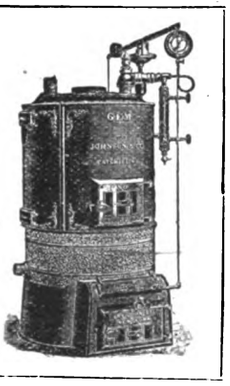
Rolling Front. Six Holes. Stationary or Portable Reservoir.

Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the
CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street. MASSILLON, OHIO.



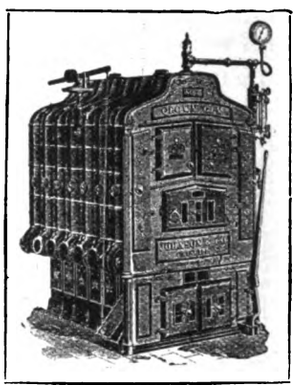
GEM and ECONOMIST HEATERS.

FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

MANUFACTURED BY
JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.
CAN FURNISH THEM IN BRONZE, NICKEL OR OXIDIZED.



"WE ARE RECEIVING GOOD RESULTS."

Clayton & Lambert Mfg. Co., Ypsilanti, Mich. [*Gasoline Fire Pots and Paint Burners.*] We are receiving good results from the advertisement which is running in your paper, and bel eve the service which you are g ing us, is extra good. We trust that our relationship for the coming year will be as pleasant and profitable as have those of the past, and feel very confident that it will.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... 40&12½&5
Railroad.....

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....20 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&5&2%
Cent. Fire, Pistol and Rifle.50&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 32 and 38 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00.....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&5%
First quality, 14, 16 and 20 gauge $7.50.....25&10&5%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&5%
Brass Shot Shells, 1st quality .50&5%
Brass Shot Shells, Club, Rival and Climax.....65&5%

SHELLS, LOADED—
With Black Powder...40&10&10&5%
With Nitro Powd'r.40&10&10&10&5%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8.....1.50..P.E., 7.....1.50
} 33⅓&5%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag.....$1.22
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag.....$ .35
Buck Shot, 25-lb bags, ₩ bag....$1.47
Buck Shot, 5-lb bags, ₩ bag....$ .35
Chilled Shot, 25-lb bags, ₩ bag.$1.50
Chilled Shot, 5-lb bags ₩ bag..$ .35
Dust Shot, 25-lb bags, ₩ bag....$2.00
Dust Shot, 5-lb bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand Powder Co.:
Orange Rifle "Extra," F, FF, FFF, in kegs 25 lb.....$4.00
½ kegs 12½ lb.....2.25
¼ kegs 6¼ lb.....1.35
1 lb canisters.....,75
½ lb canisters.....15
¼ lb canisters.....12
Orange, Special, Nos. 1 and 2, in kegs, 25 lb.....5.00
½ kegs, 12½ lb.....2.75
¼ kegs, 6¼ lb.....1.50
Orange Ducking, Nos. 1 to 5, in ¼ kegs, 6¼ lb.....2 25
1 lb canisters.....45
Orange Lightning, Nos. 1 to 7, in 1 lb canisters.....75
[Over 1000 lb lots 10% discount.]
Laflin & Rand W.-A. Smokeless:
Single Canisters.....$1.00
10-Can Drums.....$9.00
Discounts on application.
Blasting and Mining, "A," in kegs, 25 lb.....2.25
Blasting and Mining, "B," in kegs, 25 lb.....1.50

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each.....45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each.....30

Eagle Rifle and Superfine Sporting, in canisters of 1 lb each.....45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each.....35
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each.....15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each.....12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb.....4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb.....2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb.....4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb.....2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb.....1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb.....4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb.....2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼.....1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb.....5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb.....2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb.....1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb.....2.15
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb.....2.15
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb.....1.40
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ lb Black Powder.....11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder.....5.75
Canisters, equal in bulk to 1 lb Black Powder.....1.00
Discounts on application.

HARD GRAIN SMOKELESS—
TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....₩ doz. $3.80
Galien Safety.....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz. $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burton's, No. 2....₩ doz. pairs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs.$1.00
Kohler's:
Invisible, No. 3.....₩ gro. $6.80
Perfect, No. 2.....₩ gro. $7.00
Bolt Holder, No. 1.....₩ gro. $9.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ₩ lb 9c.....15@15&5%
Hay-Budden, Wrought....8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..20%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Bell hangers' bit.....40%
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. M Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $24.00, 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $60....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2, $48.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, ₩ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Detroit.....6 @70%
K. & F.....60&10&10&5%
Syracuse, for wood.....40%
W. & B. Diamond.60&10@60&10&10%

TWIST DRILLS—
Cleveland.....60&10@70%
Detroit.....60&10@70&5%
K. & F. Straight Shank..60&10&10%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@70%
W. & B Diamond.....60&5@60&10%
W. & B. Universal Self-Oiling...10%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, ₩ gr.....$2.00@2.25
H'ld Scratch ₩ gr.....$3.75@4.00
Pat. Peg ₩ gr.....30@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr.....$1.35@1.45
Shouldered Brad. ₩ gr...$1.50@1.65
Socket Scratch ₩ doz....$1.00@1.10
Stanley Rule & Level Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $13; 4, $9; 5, $7.....50%
Ice Awls.....55%
Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $15.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands.$5.00@5.25
First quality, other " $4.50@4.75
Bevoled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $6.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's.... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
₩ doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....20%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....60&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&5%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....40&10%
Staple.....40&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....35&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $5. 10@10&10%
Terrell's No. 1 and 2, $8; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bicycle Tires—

W. & B.....₩ pair, $6.50
W. & P.....₩ pair $7.00

Bit Holders—

Angular.....40&5%
Extension:
Barber's, ₩ doz. $15.00.....45%
Ives' ₩ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..₩ doz. $3..33⅓@33⅓&10%
Excelsior..₩ doz. $10.00....50&10&2%
N rth's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₩ gro. sets.....$5.50
Gorhams Improved Star Tenon ₩ gro. $1.00.....25%
Merriman's Brass Lever ₩ gr. $15.00
Merriman's Iron Lever ₩ gr...$9.00
Millers Falls ₩ set $1.00.....15&10%

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Security Gravity ₩ gr.....$9.00
Van Sand's.....55&10%
Washburn's Plate ₩ gr.....$9.00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....30%
Pat. Automatic.....30%
Perfect Safety.....30%
Stowell Novelty Block.....50&10%
Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—
Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list..60&10&5@70%
Wrought Shutter, Sargent's list..60&10&5@70%
Wr't Sunk Flush, Sargent's list.50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &c.—
Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..75&10@75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $2.40 list.....70%

TIRE—
American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, '83..75@75&10%
Eagle.....85%
R. B. & W., list Oct. 16, '84.....80%

STOVE AND PLOW—
Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—
Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....20%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.25; 2, $1.65; 3, $2.50 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's. Rice's Pat.	2.50	$2.75

Bow Pins—

1¾ inch, ₩ gro.....$4.50@$5.00
inch, ₩ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....50&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&75%
Common Ball American. $1.10@$1.20
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.60&10@60&10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 106@114.....60&10%
No. 208½@216.....60%
Lancaster Mach. & Knife Works.45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80&10%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@25%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & I. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....25&10%

Butts—

BRASS—
Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@40&10%

CAST IRON—
Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow,....60@60&10%

WROUGHT STEEL—
List, April 1, 1895.
Bronzed Inside Blind Butts.50&10@50&10&5%
Bronzed, Narrow...50&10@50&10&5%
Fast Joint, Narrow.....
Fast Joint, Light Narrow.....
Fast Joint, Broad.....
Loose Joint.....
Loose Pin.....
Table Butts, Back Flaps, etc..
} 75%

Can Openers—

American.....₩ gross $1.75@$1.90
Columbian.....₩ gro. $14.40
Dunlap's Iron Handle, No. 3 ₩ gr. $12.00.....25%
Dunlap's Sardine Scissors, ₩ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme.....₩ gr. $6.00
No. 5, Iron Handle.₩ gr....$2.00@2.25
Sardine Scissors...₩ doz. $2.00@2.25
Sardine Scissors, Forged Steel, ₩ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70&10%
Universal, ₩ doz. $3.00.....55&5%
World's Best, ₩ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓%
Cast Iron Steel Points, ₩ doz.75@$1.00
Cast Steel, Polished.....₩ doz. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₩ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal....
Grand.....
Grand Rapids.
Hall.....
Prize.....
Premier.....
Superior.....
Cyco-Bearings
..₩ doz. $24.00
..₩ doz. $36.00
..₩ doz. $22.00
..₩ doz. $60.00
..₩ doz. $24.00
..₩ doz. $24.00
..₩ doz. $24.00
Crown Jewel, japan finish, ₩ doz $19.00
Crown Jewel, nickel, ₩ doz. $31.00
Furniture Protector, Japan.....₩ doz. $22.00
Furniture Protector, Nickel.....₩ doz. $24.00
"Standard A," Jap...₩ doz. $20.00
"Standard A," Nick..₩ doz. $22.00
Standard.....₩ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—
Baby.....₩ doz. $2.50
Child's.....₩ doz. $3.00
Little Jewel.....₩ doz. $6.00
Little Queen.....₩ doz. $4.00
Misses.....₩ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@ 0&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent(Phoenix). 60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co.....66⅔%
Sargent's.....70&10@70&10&10%

COW TIES—
American.....60&10%
Covert's Horse and Cattle:
Jute.....45%
Manilla.....45%
Sisal.....45%
Triumph.....45%

Chain—

American Coil, Ass'n cask prices.
3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Bridgeport Chain Co.:
Brown, Coil.....60&10&5%
Brown, Halter.....60&10&5%
Monarch, Sash.....60%
Triumph, Coil.....60&5%
Triumph, Halter.....60&5%
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Chain Guards—

Aluminum S. & N. Co.....50%

Cherry Stoners—

Enterprise.....25%
Family.....net ₩ doz. $4.00

Chisels—

SOCKET FRAMING AND FIRMER—
Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10 &5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—
Buck.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₩ lb 14c@16c
C. E. Jennings & Co.....20%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....$5 to $
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $8.00.....30%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Balz Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $8.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati.....25&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's...45&10%
Carpenters', Cincinnati.....25&10%
Carriage Makers', Sargent's..50&10@50&10&5%
Carriage Makers' P. S. & W. Co..40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₩ doz. $3.25
Star Shank.....₩ doz. $3.50
Star Socket.....₩ doz. $3.75

Clippers—

HAIR—
Chicago Flexible Shaft Co.'s:
Handy.....Each $1.10..50%
Monitor.....Each $1.65..40%
Stewart Pat.....Each $2.00..50%

HORSE—
Chicago Flexible Shaft Co.'s:
Chicago Belt Clipping Machine, Each $15.00..15%
New '98, Chicago..Each $1.75..15%

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
Logan & Strobridge Co...net prices
National Specialty Mfg. Co.....30%
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....25&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....20%
Barton's.....20@20&5%
Beatty's.....33⅓%
L. & I. J. White.....20@20&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.....20%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson.....₩ doz $10.00
Williamson's.....40%

Corn Hooks -

Kretsinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....25@25&10%

Counter Sinks—

Adjustable.....20%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....25%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....20%
Dixon's
Eclipse	₩ gro.	$3.75
Emerald	₩ gro.	5.00
Oriole	₩ gro.	5.00
Rainbow	₩ gro.	2.81
Solid	₩ gro.	7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, ₩ doz. $7.50.....30@30&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$35.00

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Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....25%
Norton.....10@50%
Rubber, complete, ₩ doz. $5.50.....66⅔@70%
Star (Coil), list Oct. '95.....33⅓&10%
Torrey's Rod, 30 in, ₩ doz $1.20@1.25
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, P. S. & W, Witherby.....75& 10& 5%
Watrous.....30@30&10%
L. & I. J. White.....30&5@35%
Wilkinson's Folding.....35@35&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths' .....each $1.75
Breast, Bartholomew's No. 12, ₩ doz.....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....60&10%
Breast, Wilson's.....30&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓%
Ratchet, Ingersoll's.....35%
Ratchet, Merrill's.....30@30&5%
Ratchet, Moore's Triple Act.25@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....20&10%
Ratchet, Weston's.....20@25%
Stearns' Bench.....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00.....33⅓%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Drug Mills—

National Specialty M'f'g. Co..... 30%

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....₩ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral.....₩ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry .....50c. ea., less 50%
Bells, Electric, 3¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....50c. ea., less 50%
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone 6 c. each, less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt.... 24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea., less 50%
Spark Coils, 12 pt.....$2.80 each, less 50%
Tape, Insulating, 8'c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whis les Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $3.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF FF.
Kegs, ₩ lb.	4½c	5c	8c
½ kegs, ₩ lb.	4½c	5½c	8½c
¼ kegs, ₩ lb.	5c	5½c	8½c
10 lb cans, 10 in case....	6c	6½c	5½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro.....$4.50
No. 6, ₩ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....25%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....₩ doz. $3.00
Popes.....₩ doz. $3.00
Wilkinson's.....₩ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....25%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's "Peerless," Tin Key.....40%
John Sommer's "Boss," Tin Key.50%
John Sommer's "Victor," Metal Key.....50&10%
John Sommer's "Duplex," Metal Key.....60%
John Sommer's "Buckeye," Metal Key.....40%
John Sommer's "Rochester," Metal Key.....50%
John Sommer's "Rival," Metal Key.....50%
John Sommer's "Crescent," Metal Key.....70&10%
John Sommer's "Diamond," Lock 40%
John Sommer's "Eclipse," Lock.. 40&10%
John Sommer's "Union," Lock 50%
John Sommer's "I. X. L," Cork Lined.....50%
John Sommer's "Reliable," Cork Lined.....50&10%
John Sommer's "Common," Cork Lined.....70%
John Sommer's "O. K.," Cork Lined.....50%
John Sommer's "Chicago," Cork Lined.....60%
John Sommer's "Perfection," Cedar.....40%
John Sommer's "No Brand." Cedar.....50&10%
Star.....60@60&5%

SELF MEASURING—

Enterprise ₩ doz. $36.00.....40%
Lane's ₩ doz. $36.00.....40%
National Specialty Mfg. Co....33⅓%

Fibreware—

Standard Fibre-ware Co.

	PRICE PER DOZ. No. 1.	No. 5.	No. 5x.
Buggy Pails, 7 in. high.	2.60		
Chamber Pails, (flat cover, knob) Nos. 5 and 5x 14 qt.....	5.00	6.00	6.50
Commode Pail, (with ring only) Nos. 5 and 5x 14 qt.....	4.50	5.50	6.00
Commode Ring, (extra for Slop Jars, etc.)...	1.40	1.70	2.00
Cuspidors, 9x7½ inches, (anti-tip-over).....	5.50	6.50	7.00
Dairy Pails, 14 qt.....	3.80	3.80	4.30
Fire Pails, 14 qt., stencilled "fire.....	3.40		
Fruit Bowls.....	1.20	1.70	2.00
Keelers, 11½ inch.....	2.30	2.80	3.10
Milk Pans.....	1.50	2.00	2.20
Mats, 8½ inch (for table use).....	.50	1.00	1.20
Mats, 15 inch (for cuspidores, etc.,.....	2.00	2.50	3.00
Mats, 17 inch (for slop jars, spittoons, etc)...	2.20	2.80	3.40
Mats, 20 inch (for slop jars, spittoons, etc)...	3.00	3.70	4.30
Prison Pails, 16 qt. (with cover).....	6.50		
Pitchers, 10½ in. high..	4.00	4.70	5.20
Peck Measures.....	2.80		
Slop Jars (bal. trap c'v'r) No. 5 and 5x, 14 qt....	6.50	7.50	8.00
Slop Pails (open funnel c'v'r) No. 5 and 5x 14 qt.	5.00	6.00	6.50
Spittoons, Daisy, 8½ in. (detachable covers)..	2.50	3.00	3.50
Spittoons, 10½ in., (detachable covers).....	3.60	4.50	5.00
Spittoons, 12 in., (detachable covers).....	4.00	4.80	5.30
Water Pails, 12 qt....	$3.00	$3.50	$4.00
Waste Paper Jars.....	3.00	4.00	4.50

Wash Basins (10½ inch) 1.10 1.50 1.70
" (12 inch).. 1.20 1.70 2.00
" (13½ inch) 1.70 2.30 2.70
Wash Basins, 15 in.. (or Wash Bowls,..... 2.30 2.90 3.40
Wash Bowls 14 in. deep 2.50 3.30 4.00

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Derby.....75&10%
Disston's.....75%
Economy.....75&10%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files...10@10&10%
Royal.....75%
Second Quality Files.....80@80&10%
Tiger.....75%
Troy File Works: Files.....70&10% Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters: A 1, $4.00 No. 2, $2.50 No. 3, $1.50 No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (60c base).....10%

Fish Scalers—

Covert's Saddlery Works: Great American.....60&20%
Fitch's.....25&10%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc.75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....80%
Columbia, Spading.....80&5%
Hay.....75%
Iowa Farming Tool Co.: Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&20&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....80%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's: Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fruit, Wine and Jelly Presses.

Enterprise.....35%

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@80%

No.....	0	1	2	3	4
₩ doz..	$3.00	$3.75	$4.35	$4.75	$5.25
No.....	5	6	7	8	
₩ doz.....	$6.00	$7.00	$8.00	$9.00	

Gas Burners, Self-Lighting—

Gem.....₩ doz. $2.50
In lots of 3 doz.....₩ doz. $2.35

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch..... .....33⅓%
Clapboard.....20%
Marking, Mortise, &c..50&10@60& 10&10%
Stanley's.....60&10%
Stanley's Chisel.....25%
Starrett's Surface, Center and Scratch .....25&10%
Copeland Champion Bit ₩ doz $3.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list.... 10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12.....25@25&10%
Bell Hangers.....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets: Assorted 1, 2 and 3.....₩ gr. $1.50 Assorted 2 and 3.....₩ gr. $1.70
Pod.....50%
Star.....50%

Spike Gimlets: Assorted 1, 2 and 3.....₩ gr. $3.00 Assorted 2 and 3.....₩ gr. $3.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....45@50%

Graters—

Champion Nutmeg.....₩ doz. $9.00
Edgar's Nutmeg..₩ gro. $10.50..10%
Enterprise.....20%
Rotary Nutmeg.....₩ gro. $9.00

Grindstone Fixtures—

Howard Iron Co.....30%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....₩ doz. $6.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works: '96 List.....60&20%
Upson & Wooding.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@60%
Henry Cheney Hammer Co. Handled Claw.....40&10% Machinists'.....50&10%
C. Hammond & Son. List..40&10@50%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb: Artisan's Choice, A. E. Nail.. 40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....50&10@60%
Sargent's New List.....45@50%
Verree.....50&10@60%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb....₩ lb 40c
3 to 5 lb.....₩ lb 35c } 75@80%
Over 5 lb.....₩ lb 30c
Wilkinson's Smiths....9½c@10c ₩ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@ 50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....	$ .90	1.00	1.08	1.35	1.50

50&10@60%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....65%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....60&10@66⅔%
Japanned, with Nuts.....$1.63
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....50&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60 &10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔%

WOOD—

Auger, assorted.....₩ gr. $2.25@2.50
Auger, large.....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 8 3/4.....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25.....25&10%
Brad Awl.....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00

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Firmer Chisel, Hickory ass'd ℔ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ℔ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ℔ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc ..... 50&2½
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane ..... 40&10@50&
Shovel and Spade, Wood D Hdle. 60@60&10%

BOSS-CUT SAW HANDLES—

Atkins 40%
Boynton' Loop Saw Handles, 50c. 60%
Champion ..... 45@45&10%
Sensible ..... ℔ doz. pr. $5 .... 60%

Hangers—

Barn Door, old pattern .... 60&10@60&10&10%
Barn Door, New England. 70@70&10%
Barry, $3.00 ..... 50&10%
Best Anti-Friction. 60&10@60&10&5%
Challenge, Barn Door 50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00 ..... 70&10%
Cronk's Steel cov'd Loose Axle. 60& 20%
Davis Parlor Door ..... 50@50&5%
Duplex (Wood Track) ..... 60&10&5%
Kidder's ..... 50@50&10%
Lanes Barn Door:
Covered ..... 60&10%
No. 50 ..... 6 &5%
New Model ..... 4 &10%
Parlor, Standard ..... 4 &10%
Standard ..... 60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $14.00, ℔ dozen pairs ..... 60&10%
Reed's Steel Arm 50%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c. 40%
Richards' Single Track, Steel. 50&10%
Star ..... 50&10&10%
Stearns' Challenge ..... 50@50&5%
Sterling's Impr'd. 60&10@60&10&10%
Stowell Barn Door.
Badger ..... 60&10
Ollimax ..... 55&5%
Interstate ..... 60&15%
Magic ..... 50&10%
Matchless Covered ..... 60&10%
Wild West ..... 5 &5%
Zenith ..... 5 &5%
Baggage Car Door 33½%
Elevator 40%
Railroad ..... 5 &5%
Terry Ideal ..... 60&10%
Terry's Modern 60%
Terry's Modern, Covered 60%
Terry's Safety ..... 50&5%
Terry's Solid ..... 60&10&10&5%
Terry's Wrought ..... 60&10&10%
The Boss ..... 60&10@60&10&5%
Universal Anti-Friction 40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00 60&10&2½%
Warner's Pat ..... 20&10&10%

Harness Snaps—

See Snaps.

Hasps and Staples—

McKinney's "Perfect," $1.10 ℔ doz ..... 40&10%
Wrought ..... 55&10@55&10&5%

Hatchets—

See Axes.

Hay Racks—

Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—

Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers. $6.00@$6.25
Wadsworth's ..... 40&5@40&7½%

Hedge Shears—

Wm. Wilkinson & Sons 50%

Hinges—

WROUGHT IRON HINGES—

Corrugated Strap and T. .75@75&5%
Rolled Blind Hinges Nos. 33 and 34 50&10@50&10&5%
Rolled Plate ..... } 70&10@70&10&5%
Rolled Raised .... }
Plate Hinges "Providence" 6 to 12 in. ℔ lb., 5c. 14 to 36 in. ℔ lb. 4c.
Screw Hook and Strap. { 6 to 12 in., ℔ lb. .2½c / 14 to 20 in., ℔ lb. .2½c / 22 to 36 in., ℔ lb. .2 c
Strap and T ..... 70@75&5%

SPRING HINGES—

Acme ..... 30@10%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ℔ gr. $18.00
Geer's Spring and Blank Butts .. 40%
Gem ..... 30&10%
Zell's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ℔ gro. $7.50
New Idea, No. 2, ℔ gro. $18.00
Oxford ..... 30&10%
Rex ..... ℔ gr. $12.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single .. 70&10%
Japanned Surface, Double. 60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single ..... 7 %
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 20%
Union Mfg. Co. 25%
Wiles' No. 1, ℔ gr., $16.00; No. 2, $18.00

GATE HINGES—

Automatic ..... ℔ doz $12.50, 50%
Common Sense .. ℔ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E. ... ℔ doz $7.50 ..... 60@60&10%
N. E. Reversible ..... ℔ doz $5.60 60@60&10%
N. Y. State .. ℔ doz $4.90 .. 60@60&10%
Reed's Latch and Hinges .. ℔ doz $12.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3. 60&10@60&10 &5%
Western, ℔ doz $4.20 ..... 60@60&10%

BLIND HINGES—

Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 2, 3, 5 ..... 60&10%
Nos. 40 and 50 ..... 60%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 13, 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter .. 60&10%
Buffalo Gravity Locking, Nos. 1, 2 and 3 ..... 80& 0 &5%
Champion Gravity Locking, No. 75 ..... 60&10&10%
1868, Old Pat'n, Nos. 1, 2 and 3, 60&10%
Tip Pattern, Nos. 1, 2 and 3, 60 &10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 10½ .. 80%
Niagara Gravity Locking, Nos 1, 2 and 3 ..... 80 &10%
Noiseless, Nos. 50, 60, 65 and 65. 60%
O. S. Lull & Porter ..... 80&10 &5%
Pioneer, Nos. 000, 45 and 5½ .. 75 &5%
Steam Boat Gravity Locking, No. 10 ..... 80&10&5%
Stranger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ℔ doz. sets $1.20 ..... 4 &10%

Hitching Cords—

Covert Mfg. Co. 45%

Hoes—

HANDLED—

Crescent Cultivator, 6 in. ℔ doz. $3.50 net
Crescent Cultivator, 7 in. ℔ doz. $3.75 net
Crescent Double-Bit ℔ doz. $4.00 net
Crucible Cut-Easy .. ℔ doz. $4 50 net
Cotton ..... 80& 12½%
Dunlap's Boys', Ladies', Toy 25%
Garden ..... 75&20%
Mortar ..... 75& 25%
Iowa Crucible Socket ..... 75&20%
Magic ..... ℔ doz $4.00
Mattock Hoe .. .... ℔ doz. $3.75 net
Planter's ..... 80&15%
Texas Cut Easy ..... ℔ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—

American Axe & Tool Co. 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat. ..... 45&5%
Razor Blade, Scovil Pat. ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 20@20%

Hog Rings and Ringers—

Hill's:
Rings ..... ℔ gr. boxes .. $3.00@$3 25
Ringers ..... ℔ doz. 50@55c
Kohlers, Horse Nail, Ringers. ℔ doz. $9.00
Perfect Rings ..... ℔ gro. $7.00@$7.50
Perfect Ringers ..... ℔ doz. 80c

Hollow Ware—

IRON—

Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware .. 70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 10&10%
White-Ware ..... 25&10%

STOVE HOLLOW-WARE:—

Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—

Boilers and Saucepans .. 62½@65%
Maslin Kettles, ... 75&5@75&10&5%
Tinned Boilers and Saucepans .. 60&5@60&10%

SILVER-PLATED—

4 mo. or 5% cash in 30 days.

Hartford Silver-Plate Co. ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co. ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co. ..... 40&5%
William Rogers Mfg. Co. ..... 40&10%

Hooks—

BUSH—

Jennings & Griffin's ..... 40&10%
Light ℔ doz. $5.00: Medium ℔ doz. $5.50; Heavy $6.00

CAST IRON—

Bird Cage, Sargent's list .. 60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list .. 5 &10%
Coat and Hat, Sargent's list .. 50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list .... 50@60&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—

Cotton ..... ℔ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ℔ doz. 60c
Picture, T. & S. Mfg. Co. 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—

Enterprise 33⅓%
Wm. Johnson's:
8 in. ..... ℔ doz. $2.20 net
10 in. ..... ℔ doz. $2.70 net

WIRE—

Atlas Coat and Hat ..... 50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme .. 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—

Carpenter's Anc. Grass Hooks, ℔ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ℔ lb 45c

Horse Nails—

	Nos. 6	7	8	9	10	
A. C.	25c	25c	22c	21c	21c.	40&10%
American, all sizes, 9½@10c.						net
Ausable	26c	26c	25c	24c	23c.	40&10&5%
Anchor	26c	21c	20c	19c	18c	40%
C. B. K.	25c	26c	22c	21c.	21c	40%
Capewell	19c	18c	17c	16c	16c.	10&5%
Champlain	26c	26c	25c	24c	23c	40&5&2%
Clinton Fin.	19c	17c	16c	15c	14c.	30&10&5%
Empire Bronsed						10c
Essex	26c	26c	25c	24c	23c.	40&10@50%
Lyra	9½c	9½c	9½c	9½c	9½c.,	net
Maud S	25c	23c	22c	21c.	21c	50&10&5%
Northw't'n	25c	23c	22c	21c	20c.	25@25&5%
Putnam	26c	21c	20c	19c	18c	25%
Snowden	9½c	9½c	9½c	9½c	9½c.,	net
Vulcan	26c	21c	20c	19c	18c	25%
Western, 5 to 10d						9c

Horse Shoes—

See Shoes.

Horse Ties—

Covert Mfg. Co. 45%

Hose, Rubber—

Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—

Copeland Ice Pick .... ℔ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Parker's:
Ice Box Chisel .... ℔ d z. $12 0 } 25&10&5%
Ice Crusher, No 3, ℔ doz. $3.00 }
Ice Crusher, No. 2, ℔ doz. $6.00 }
Ice Crusher, No. 1, ℔ doz. $2 .00 }
Ice Tools ..... ℔ doz. $4.00 }
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—

Enterprise, No. 33, ℔ doz. $6.00 .. 25%
No. 34 ..... ℔ doz. $15.00 .. 25%

Jack Screws—

See Screws.

Kettles—

Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—

Ames':
Bread Knives. ℔ doz. $1.50 .. 20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@20%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c. 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher ..... net
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 30%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives .. 25@25&5%

Knobs—

Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ℔ gr. ..... $1.35@$1.50
Carriage, Jap ..... ℔ gro. 30c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ℔ doz. 55@60c
Door Por. Jap'd ..... ℔ doz. 65@70c
Door Por. Nickel .. ℔ doz. $1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Lace, Leather—

John C. Hagan & Co.:
Rawhide Side Lace, No. 1 ℔ ft. 18c
Tanned Side Lace ..... ℔ ft. 18c
Cut Lacings, ¼ in., ℔ 100 ft. $1.00
Cut Lacings, 5 16 in., ℔ 100 ft. $1.25
Cut Lacings, ⅜ in., ℔ 100 ft. $1.50
Cut Lacings, ½ in., ℔ 100 ft. $2.00
Cut Lacings, ⅝ in., ℔ 100 ft. $2.75
Cut Lacings ¾ in., ℔ 100 ft. $3.25
Discount from list, 60%

Ladles, Melting—

Monroe's Pat. ..... ℔ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—

Buhl Stamping Co:
No. 160 Buhl Tubular Headlights, ℔ doz. list $30.00
No. 16 Buhl Side Lever, ℔ doz. list $7.50
No. 10 Buhl Improved Regular, ℔ doz. list $7.00
No. 200 Buhl Square Top Lift. No. 2, ℔ doz. list $11.00
No. 150 Buhl Dash Reflector, ℔ doz. list $10.00
No. 200 Buhl Dash Reflector. No. 2, ℔ doz. list $17.00
Discount ..... 40&5%

Latches—

Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—

Champion ..... 75&10%
Clipper Improved ..... 50&10&10&5%
Continental ..... 60&10%
Enterprise 40%
Genuine Philadelphia Mowers:
Styles M., S., C., K., T. ..... 70&10%
Style A., (all steel) ..... 60&10%
Style E, Low Wheel ..... 60&10%
Style E., High Wheel ..... 70&10%
Drexel, low list 50%
Gold Coins, low list 50%
Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pastime

12 in.	14 in.	16 in.
$6 00	$6.25	$6.50 each net

Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—

Enterprise 25%
Gibbs' Arc ..... ℔ doz. $10.00
Gibbs' Hustler ..... ℔ doz. $5.00

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Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1, No. 2, No. 3.
℔ doz. $12.00 $15.00 $24.00..35%

Lemon Squeezers—

Berger Bros. ℔ doz. 8-in. $1.00; 10-in. $1.40.....20%
Dean's, Nos. 1, ℔ doz. $6.50; 2, $3.35 3, $1.65; Queen $2.50 net
Dunlap's Improved ℔ doz. $3.75 20%
Hotchkiss, Straight Flush ℔ doz. $9.60
Jennings' Star...℔ doz. $1.90@$2.00
Little Giant.....50@50&5%
Porc. Lined, Iron.....$3.25@$3.50
Porc. Lined, Wood....℔ doz. $6.00 30&10@40%
Wood, Common ℔ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—

Name Door Plate.....50@50&10%
Name Plate.....70%
Number Door Plate.....60@60&10%
Sargent's.....60&10@70%

Levels—

C. E. Jennings & Co.'s:
Hexagon.....25&10%
Iron Bench, new design....25&10%

Lifters—

See Transom Lifters.

Lines—

Cotton and Linen Fish, Draper's.50%
Cotton Chalk, 50 feet.....60&10%
Cotton Trot.....33⅓%
Masons':
Colored Cotton.....40&10%
Flax.....40&10%
No. 0 to 6.....25%
Samson, Cotton, No. 4, $3; No. 4½, $3.50....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ℔ gro.....25%
Ventilator Cord, Samson Braided, White or Drab Cot. ℔ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &c.—
Barnes Mfg Co.....40@40&10%
Branford Lock Co.....net prices
Brooklyn Latches.....50&10%
Champion Night Latches.....40%
Diets Flat Key.....30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co.....60&10%
Plate.....50@5%
R. & E. Mfg. Co.....60&10@70%
Reading Hdw. Co.....60@60&10%
Romer's Night Latches.....30&5%
Sargent & Co.....60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch.....35&5%
All other Night Latches.....40%
Yale.....net prices

CABINET—
Barnes Mfg. Co.....40@40&10%
Diets:
Nos. 23 to 39.....40%
Nos. 41 to 78.....45%
Nos. 87 to 96.....30%
Eagle Lock Co.....45&5%
Charles Parker Co.....45&5%
Romer's.....35%
Stoddard Lock Co.....30@33⅓%
Yale.....45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00.....40%
Ames Sword Co.....40%
Barnes Mfg. Co.....50@50&10%
Champion.....40%
A. E. Dietz.....40%
Eagle.....40%
Eureka, Eagle Lock Co.....40&5%
Gem, Corbin's.....40&5%
Romer's Nos. 0 to 3½.....40&5%
Scandinavian.....30&40@30&40&10%
Smith & Egge Bicycle.....50%
Wrought Iron.....75@80%
Yale Lock Co.....net prices

TRUNK—
Corbin's.....25%
Eagle.....25%

Mallets—

Sargent's List
Hickory.....50@25&10%
Lignumvitæ.....50@25&10%
Raw-Hide.....40&10%

Mattocks—

Regular list.....70@70&10%

Meat Cutters—

American.....30%

Nos.	1	2	3	4	B	5
Each.	$5	$7	$10	$25	$50	$60

Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ℔ doz $30.00
Dixon's.....℔ doz 33⅓%

Nos.	1	2	3	4
	$14	$17	$19	$30

Enterprise.....25%

Nos.	10	12	22	32	42
Each	$3	$3.50	$4	$5	$15

Gales Pattern ℔ doz.....70@70&5%

Nos.	11	12	13
	$27	$38	$45

Home No. 1..℔ doz $30.....60%
Little Giant.....50&10%

Nos.	305	310	312	320	323
	$35	$43	$44	$72	$68

Miles' Challenge ℔ doz...45@45&10%

Nos.	1	2	3
	$22	$30	$40

Perfection.....net
Woodruff's ℔ doz.....33⅓%

Nos.	100	150
	$15	$18

Meat Juice Extractors—

Enterprise.....25%

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction. ℔ lb..25c
No Name.....℔ lb..15c
Mystic.....℔ lb..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.). ℔ doz.$12.00

Motors—

COFFEE MILL—
Specialty Novelty Co.....each $5. 0

Nails—

WIRE AND CUT NAILS—
See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....85%
Wire Nails.....85%

PICTURE—
Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list, 40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—
Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ℔ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....℔ doz $18.00, 20%
National.....℔ doz. $24 00, 40%
Pelican.....℔ doz $9.00, 15&10%
Scranton No. 2.....℔ doz. $10.00
Scranton No. 3.....℔ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point℔ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.....℔ gro. $10.00
Hunters' Cup Point, Plain.....℔ gro. $9.00
Round, assorted.....℔ gr. $3.00@3.25
Square.....℔ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ℔ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6.30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....℔ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—
Pikes Washita:
Lilly White, ℔ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ℔ lb..... .50
No. 1..... .40
No. 2..... .30
Pike's Washita Round Edge Slips: 3 to 5x1¼ to 2¾ to ⅝ at back, ⅛ to 5-16 edge ℔ lb:
Lilly White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ℔ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ℔ doz.....$12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x¾ to 1¼, ℔ lb..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—
Boston Belting Co.:
"Boston".....60%
"Excelsior" Self-Vulcanising, per lb 70c.....40%
Boston "Phœnix" Red Sheet, per lb.....50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—
American Packing.....9c@10c ℔ lb
Cotton Packing.....14c@15c ℔ lb
Italian Packing.....12c@14c ℔ lb
Jute.....6c@7c ℔ lb
Russian Packing.....13c@14c ℔ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance	℔ doz $4.50
Baldwin	℔ doz 5.00
Bonanza	each 5.00
Daisy	℔ doz 3.50
Dandy	each 7.50
Eureka, 1888	each 10.00
Family Bay State	℔ doz 12.00
Favorite	℔ doz 5.00
Gold Medal	℔ doz 4.00
Ideal	℔ doz 4.00
Improved Bay State	℔ ds..$27@30.00
Little Star	℔ doz 4.00
Monarch	℔ doz 13.50
New Lightning	℔ doz 5.50
Oriole	℔ doz 4.00
Penn	℔ doz 3.00
Perfection	℔ doz 4.00
Reading, 72	℔ doz 4.00
Reading, 78	℔ doz 7.00
Rocking Table	℔ doz 5.50
Scott's Pat. Rotary, ℔ doz	$15.00, 20%
Turntable	℔ doz 4.50
Victor	℔ doz 13.50
Waverly	℔ doz 3.75
White Mountain	℔ doz 4.00

POTATO—

Saratoga	℔ doz 5.50
White Mountain	℔ doz $4.50

Pencils—

Dixon's:
Carpenters'.....℔ gr. $4.00@7.50
Carpenter, Yellow or Brown Lead.....℔ gro. 9.00
Lead.....℔ gro $4.50
Lumber.....℔ gro. 6.87
Mascot, Hexagon.....℔ gro. 3.38
Mascot, Round.....℔ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $18.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—
Bailey's (Stanley R. & L. Co.) 50&10@50&10&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—
Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....25%
C. E. Jennings & Co., Iron.....5&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's...50&10&10@50&10&10&5%
Miscellaneous.....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—
Auburn "Thistle"..... } 80&10@40%
Ohio..... }
Sandusky..... }
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to 30
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....30&5@25%

Pliers and Nippers—

Button's.....70@70&10%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70@70&10%
Fencing Pliers, ℔ doz $12 00...25%
Flat and Round Nose.....33⅓%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ℔ doz., No. 2, 5 in. $13 50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ℔ doz $13.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....20%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10&10@75&10%
Stanley's.....75&10&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ℔ doz.....10%
R. I. Tool Co., Leg Irons, $35.00 ℔ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....℔ lb 8c
Joseph Dixon's.....℔ gro $5.75, 10%
Gem.....℔ gro $4.50, 10%
Lustro.....℔ gro $4.75
Rising Sun.....℔ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ℔ doz. $ .75; ℔ gr. $8.50 } 10@
1½ qt. ℔ doz. $ .85; ℔ gr. $9.00 } 15%
2 qt., ℔ doz. $1.15; ℔ gr. $12.00 }
Quincy Corn Popper, 1 qt., ℔ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—

Kohler's:
Little Giant, No. 12...℔ doz. $12 00
Hercules, No 25.....℔ doz. $11.00
Invincible, No. 6.....℔ doz. $10.00
Pioneer, No. 714.....℔ doz. $ 9.00
Look Lever, No. 10...℔ doz. $12.00
Universal, No. 49.....℔ doz. $14.00
New Champion, No.37 ℔ doz. $ 7.00
Iron Handle, No. 38. ℔ doz. $ 6.00
Ryan's.....℔ doz., $30.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears..... 33⅓%
Cronk's Heavy Pattern, ℔ doz., $2. 0 net
Disston's Combined Pruning Hook and Saw...℔ doz $18.00, 25@25&10%
Disston's Pruning Hook.....℔ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....℔ doz $3.50, 30%
Henry's Pruning Shears ℔ doz $3.50@$3.75
Kohler's Pruning Shears.
German, No. 46.....℔ doz $3 50
American No. 33.....℔ doz. $4.50
E. S. Lee & Co.'s Pruning Tools.40%
P. S. & W. Co.'s Shears 60%
Pruning Shears, Henry's Pat. ℔ doz.....$3.50@3.75
Waters Tree Pruners .....75&10%
Wheeler, M. & C. Co.'s Combination.....℔ doz $12.00, 25&10%

Pulleys—

Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@10&60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%

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Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side. Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%

F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump.....$13.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14. Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 33, Fig. 523, 3 in Deep Well Pump.....$17.00
No. 55, Fig. 331, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump.....$17.00
No. 70. Fig. 333, 3½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 448, 3 in. Lift Pump.....$10.00
No. 103, Fig. 448, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 225, Fig. 389, Windmill Pump.....$12.50
No. 230, Fig. 402, Windmill Pump.....$13.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 406, Regulator Pump.....$30.00
No. 280 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 265, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 433, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 330. Fig. 492, Bucket Spray Pump.....$5.50
No. 333, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@55%
Check.....55%
Spring.....50&5%
Springfield Socket.....60%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

	Barn Door, Light, In.	½	⅝	¾
	Per 100 feet	$1.40	1.95	2.50

Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:

	Small.	Med.	Large
Per 100 feet.	$1.60	2.00	2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2½c
Common.....₩ foot, 2¼c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $2.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft. 5c
Sliding Door, Wr't Brass, 1½ n. ₩ ft., 35c.....60&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.60
Boss, Garden, 18 teeth, net ₩ doz. $3.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.20
Lawn Rake.....₩ doz. $4.75
Kohler's:
Lawn Queen, net ₩ doz. $3.2[illegible]@$3.40
Lawn Queen, Impr'd, net ₩ doz. $3.3[illegible]@$3.50
Catch All...net ₩ doz. $3.15@$3.25
Jumbo.....net ₩ doz. $7.0[illegible]@$9.00
Paragon....net ₩ doz. $2.8[illegible]@$3.00
Malleable.....70&10@75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....20%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

HOT AIR—
Ferosteel new list, 1897:
Black Japanned.....40&10%
White Japanned.....30&10%
Bronze-plate t.....40%
Nickel plated.....40&10%
Stowell's old list:
Japanned.....80&10%
Nickel-plated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....80%
Thousand, in bulk.....80&5%
Thousand, in papers.....80&5%
Coopers, in bulk.....80%
Block, and Carriage in papers. 80%
Hame.....80%
Belt with burrs, tinned or coppered.....75%

Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10&10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope

Cotton Rope, Best, ¼ in. and larger.....₩ lb 13 @14c
Medium, ¼ in. and larger.....₩ lb 10 @12c
Common, ¼ in. and larger.....₩ lb 8½@10c
Jute Rope.....₩ lb 5¼@5½c
Manila:
7-16 in. and larger.....₩ lb 6½c
⅜ in.....₩ lb 7 c
¼ and 5-16 in.....₩ lb 7½c
Hay Rope, Med.....₩ lb 6½c
Sisal, ⅜ in.....₩ lb 6 c
¼ and 5-16 in.....₩ lb 6½c
7-16 in. & larger.....₩ lb 5½c
Med. L'th Y'rn.....₩ lb 5 c
Hay Rope.....₩ lb 5½c

Rules—

Athol, Steel.....33⅓%
Boxwood..80&10&10&10@80&10&10 &10&10%
Ivory.....50&10@50&10&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60%
Starrett's Rules and Straight Edges, Steel.....35&10%

Sad Irons—

Chinese Laundry.....₩ lb 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ lb 2½@2¼c

COLD HANDLED—
Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles. ₩ doz.....$6.50
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4.00
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.00
No. E 55, plain polished, size 1, 2 or 3 without handles, ₩ doz. $3.50
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$7.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.30
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6.80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.25
No. E 65, plain polished, size 4, with "best" handles.....$8.30
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$2.50
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $22.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ lb 3@3¼c

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@30&5%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ lb 16c
Cable Laid Russia....₩ lb 13½c@14c
Common.....₩ lb 8½c@9c
Common Russia Sash.₩ lb 12½c@13c
India Hemp Sash.....₩ lb 9½c@10c
Jute, good quality.....₩ lb 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ lb 30c
"Samson" Braided Drab, Cotton.....₩ lb 35c
"Samson" Braided Italian Hemp.....₩ lb 33c
"Samson" Braided Linen, ₩ lb 56c
Silver Lake:
A Quality, Drab..₩ lb 55c. 3[illegible]@40%
A Quality, White, ₩ lb 50c. 35@40%
B Quality, Drab, ₩ lb 35c..... 15@15&7½%
B Quality, White ₩ lb 30c..... 15@15&7½%
White Cotton Braided, ₩ lb 21c@22c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&1 %
Sash Lifts Flush.....7 %
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Elting's Ventilating.....40@70%
Fitch's.....70&10%
Gale's Automatic, List, Nov., '97.65%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50&10%
Cross Cut.....40&10%
Gang.....50&10%
Hand.....40&10%
Wood.....40&10%
Disston's:
Circular.....50%
Cross Cuts.....45%
Gang.....50%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....45&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—
Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz., $1.00@$1,10
Richardson's Wood.....net
White Vermont..₩ gro. $8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets, ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $9.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $28.00: No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@$18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain....$2.00@$2.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '98.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....₩ doz., $3.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

DOORS—
Phillips:
Empire Fancy.....50%
Fancy Pine.....40%
Painted.....60@60&5%
Stained.....60&5%
Standard Oil.....50&10%

WINDOW—
Phillips:
Bonanza Screens.....60&10%
Flyer.....60&10%
Perfection Screens.....60&10%
Window Screen Frames....60&10%
Stearns':
Frames and Corners....35@25&10%
Gem Window Screen Frames. 25&10%
Monarch Adjustable Window Screens.....50%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....5@50&10
Pat. Excelsior.....5&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
135 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....₩ doz., 50@75c
Screw-Driver Bits, Parr's ₩ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles. 70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....35%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C. T. Williamson Wire Novelty Co. 40%

Screws—

WOOD SCREWS—
Brass, Flat Head.....57½&10%
Brass, Round Head.....65%
Bronze, Flat Head.....55&10%
Bronze, Round Head.....55%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Dowel Screws.....35%
Drive Screws, Rogers'.....90%
Iron, Bright Flat Head.....57½&10%
Iron, Br't R'd & Oval Head.....55%

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Iron, Forged Flat Head....87½&10%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Side Knob Screws.....8%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—
List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....60%

COACH, LAG AND HAND RAIL—
Coach. List, Feb. 14, 1895.....82½%
Hand Rail.....82½%
Lag Screws. List Jan. 30, 1895. 80&10&5@85%

BENCH, HAND, ETC.—
Bench, Iron, ₱ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech, ₱ doz $2.00@2.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W...40@40&10%
Jack Screws, Sargent's,..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....80&10%

Scroll Saws—
Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....25%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....25%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—
Grain.....50&10%
Grass.....60&10%
Scythe Snaths.....50&10@60&10&5%

Seeders—
Raisin, Enterprise.....25%

Shaft Couplings—
Bradley's:
Buggy, No. 8, ₱ Set.....$3.25
Surrey, No. 9, ₱ Set.....$3.60

Shears—
Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....30&20%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs.₱ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc.80&10&10@70&5%
Tailor's Shears.....40@40&5%
Tinners' Snips.....40@40&5%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1891. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—
SLIDING DOOR—
Corbin's list.....60&10&2%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1892.50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&2%

SLIDING SHUTTER—
Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—
HORSE—
Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb's..$3.15@$3.40
Gibbs' Rubber, Pat.....₱ set, $1.50
Perkins Steel Side Weight Hind $3.15@$3.40
Perkins Improved Snow.....₱ ℔ 4c
W. & B. Rubber Pad....₱ set, $3.50

MULE—
Add 50c ₱ keg to above prices.

OX, WROUGHT—
Ton lots.....₱ ℔ 9c
1000 ℔ lots.....₱ ℔ 9½c
500 ℔ lots.....₱ ℔ 10c

Shot—
See Ammunition.

Shovels and Spades—
O. Ames & Sons:
C.S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—
Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—
Hunters' Genuine, ₱ gross, $10@11.50

Sign Letters, Figures, &c.—
Aluminum S. & N. Co.:
Sign Letters and Figures.....60%
Door Plates.....60%
Trade Checks.....40%

Skate Sharpeners—
Eureka...₱ doz. $1.75; ₱ gro. $18.00

Slaw Cutters—
Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₱ gro. $15.00@$18.00
2 Knives.....₱ gro. $20.00 @$27.00
Kraut Cutters.....50@50&10%
Woodrough & McParlin.....40%

Slicers—
Vegetable, Enterprise.....25%

Snaps, Harness, &c.
Anchor (T. & S. Mfg. Co).....65%
Cockeyes.....70&10%
Covert Mfg. Co.....45&2½%
Fitch's:
Bristol.....40&10%
Champion.....40&10%
Clipper.....10&10&5%
Empire.....10&5%
National.....10&5%
Victor.....10&5%
German, new list .40&10@40&10&10%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%
Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel.....
} 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—
Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₱ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33½%
Wood.....₱ doz. 25&10%

Spoons and Forks—
TINNED IRON—
Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33½&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—
4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—
Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
22% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—
See Door Springs.

Squares—
Disston Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels.60&10&5 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated..
Steel and Iron..
} 75&10@75&10&10%

Stair Rods—
Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—
Barbed Blind—½, ⅝, and ¾ inch, ₱ ℔.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—
BICYCLE—
Holroyd & Co.....35%

BLACKSMITH'S—
Butterfield's.....35@40%
Gardner.....33½&10%
Holroyd & Co.....40@50%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%

PIPE MAKERS—
Holroyd & Co.....75&10@80%

Stones—
See Oilstones.

Stops—
See Bench Stops.

Stove Polish—
See Polish, Stove.

Sweepers—
See Carpet Sweepers.

Tackle Blocks—
See Blocks.

Tacks, Brads, &c.—
List March, 25, '95.
2% cash. Market irregular and lower prices on some lines.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&20@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....75&10%
Basket Nails.....80%
Bill Posters' and Railroad Tacks:
S. S.....90%
Brush Tacks and Nails.....75&15%
Chair Nails.....80%
Cigar Box Nails.....75%
Common and Patent Brads.....80%
Finishing Nails.....75%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&15%
Hungarian Nails.....85&10&5%
Lace Tacks.....
Lanc.....80&20%
Looking Glass Tacks.....70%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Black.....80&5%
Tinned.....80&10&5%
Upholsterers' Tacks:
Lanc.....80&20%
S S.....90&10%

MISCELLANEOUS—
Bill Nye Brad Box.....₱ box $4.00
Bill Nye, Jr., Brad Box..₱ box $2.00
Bonnie Blue.....₱ box $1.50
Can Opener Carpet Tacks.₱ gr $4.00
Dble. Point.90&10&10&10&10&10%
Hammer Carpet Tacks..₱ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—
Columbia, No. 1, per doz., net,....$1
" " 2, " " ...1.50
Little Jack.....₱ doz. $1.00

Tapes, Measuring—
American.....40&10@50%
Chesterman's.....30@3 &5%
Keuffel & Esser Co, New list, 1898:
Steel and Metallic.....3%
Lufkin's Steel and metallic..30&10%

Taps—
American Screw Co.
Machine Screw.....70%
Holroyd & Co.'s:
Blacksmiths.....60@65&5%
Machine Screw.....70&10@75%
Machinists' Hand....60@60&10&10%
Pipe.....85@85&10&5%

Telephones—
Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each $5.50
F. o. b. cars Cleveland.

Tin, Perforated—
Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—
Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33½%
Snips—"Clauss".....30%

Tinware—
Stamped, Japanned and Pieced, list Jan. 30, 1897.....70&10@70&25%

Tobacco Cutters—
National Specialty Co.....40%

Trammel Points—
Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....20&10%
Tower & Lyon.....33½%
Prentiss'.....20@25%

Tracks, &c.—
F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₱ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₱ ft.....09
Faultless Steel Frame K. P Pulley, Fig. 435, ₱ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 485, ₱ doz.$1.75
Floor Hooks, ¾ in. ₱ doz. .55
Floor Pulley, Wood Sheave, Fig. 436, ₱ doz.....$2.00
Hanging Hooks for Double Steel Track, ₱ doz..... .60
Hanging Hooks for Single Steel Track, ₱ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₱ doz..... .45
Hanging Hooks for Wood Track, 14 in, ₱ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 390 and 391 ₱ doz.$2.00
Malleable Rafter Brackets, ₱ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car...$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₱ doz..... .....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$2.25
Rope Hitch, ₱ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ₱ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 555, ₱ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₱ doz..... .45

Transom Lifters—
Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 50@ 0&10%
Crescent.....70@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 303 and 304.....₱ 100, $13.00
Shaw's:
Copper Finished.....80&10%
Lever.....70@70&10%

Traps—
GAME—
Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—
Enterprise Mfg. Co., Mole.....15%
Erie Rat.....40@40&10%
Household.....₱ gr $10.00
Hotchkiss:
Metallic Mouse,.....₱ doz. 65c
Improved Rat.....₱ gross, $12.50
New Rat.....₱ gross, $12.50
Mouse, Bonanza.....₱ doz 90c@$1.00
Mouse, Catch-'em-Alive ₱ doz $2.50.15%
Mouse, Delusion..... 40%
Mouse, Ideal..... ₱ gr $9.00
Mouse, Round Wire. ₱ doz $1.50, 10%
Mouse, Wood, Choker, ₱ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₱ gro., $13.50; No. 2 ₱ gro., $15.00

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Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $6.50
Yankee Rat Trap, ₩ doz.....$11.00
Specialty Novelty Co:
Snap Shot, 2-Hole....₩ gro., $4.50
Snap Shot, 4 Hole....₩ gro., $6.50

FLY-

Balloon, ₩ doz $1.35.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.35; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....35@33⅓&5
Disston's:
Brick.....30%
Plastering.....35%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....20%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....35@25&10%
Peace's Plastering.....25@25&5%
Richardson.....35@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Ventilators—

CHIMNEY—

Pancoast's Double Deflector.70&10%

WINDOW—

Pancoast's "Common Sense," ₩ doz. $9.00

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator 50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....45@45&10%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓&5
Massey's Quick Action.....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....50%
Stephens'.....20@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2&3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33 .....33⅓&5
Wentworth's.....35%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....30&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 26 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 26 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Weed Diggers—

"Pastime".....₩ doz. $1.75 net

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

Window Mirrors—

Bayer & Co.'s ..... ₩ doz. $24.00 net

Window Stop Adjusters—

Taplin's "Perfection".....50%

Wire and Wire Goods—

Annealed Fence, Nos. 8 and 9....75%
Annealed Grape, Nos. 10 to 14....75%
Brass Wire.....35%
Bright Wire Goods, Standard list 35&10@35&10&10%
Cast Steel Wire.....50%
Copper Wire.....45%
Galvanized Fence.....75&10%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18..80@80&10%
Cop'd, Nos. 0 to 18, 75&10@75&10&5%
Galv., Nos. 0 to 18, 75&10@75&10&5%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@75&10&5%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to $ 80%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@ 80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.15@$1.30
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....2½&2½&2½ cash
Iron.....20&2½&2½ cash
Iron, Galvanized..20&2½&2½ cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Agricultural.....60@60&10%
Aiken's Pocket (Bright)..$2 00@3.30
Alligator.....60@60&10%
American Adjustable.....40@40&10%
Armstrong's 40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's..... 30@30⅓&5
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....25&10%
Standard Brace.....25&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'."..... 40&10&10 &5&5&3%
Coes' Pattern Wrought.....60&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle .....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe 50%
Lamson & Sessions':
Engineers'..... .....60@60&10%
Standard..... .....70&10%
Lowell:
Lag Screw.....25%
Ratchet..... 33⅓&5
Socket Bridge,..... 30%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut. 40%
Whitman & Barnes:
Acme .....60@60&10&5%
All Steel Pipe .....50&10@ 0%
Always Ready.....85@40&10
Bull Dog.....60&10%
Diamond Cycle.....₩ doz $3.0
Drop Forged Engineers.35@40&10%
Hercules. .....70&10@75%
Improved Knife Handle Pipe 60@60&5%
Machinis's' Knife Handle.50&10 @50&10& 1
Regular.....50&5@ 0&10&5%
J. H. Williams.....25%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894.
Lovell Mfg. Co., list July 2, 1894..2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....46c
Linseed, City, Boiled, in barrels ₩ gallon..... .48c
Out of Town on Spot..₩ gal.....46c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 39@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....5c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 6@6½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1½@2
Putty in Tins.....1½@2½

Spirits Turpentine—

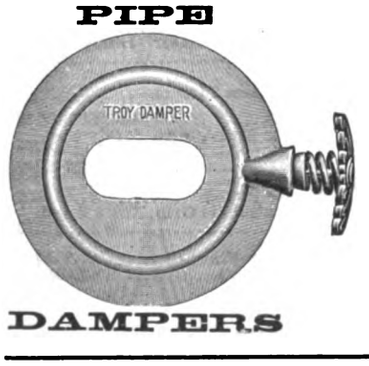
In regular bbls.....34½@——c
In machine bbls.....35@——c

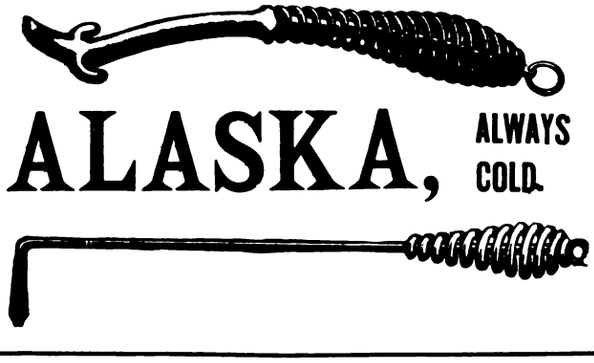
Dry Colors—

Blue, Chinese.....₩ lb 37 @40
Blue, Prussian.....₩ lb 30 @35
Blue, Ultramarine..₩ lb 8 @25
Sienna, Italian, burnt & powd red ₩ lb 3½@5 c
Sienna, Italian, raw & powdered...₩ lb 3 @4½c
Umber, Turkey, burnt.....₩ lb 2½@3½c
Umber, Turkey, raw.....₩ lb 2½@3 c
Green, Chrome, Common.....₩ lb 5 @12 c
Green, Paris, in bulk, ₩ lb 11½@12½c
Indian Red, American.....₩ lb 2 @3 c
Indian Red, English..... ...₩ lb 4½@8

Colors in Oil—

Black Coach Japan ₩ lb..18½@20
Black Coach Japan, in Oil.....₩ lb 12 @13 c
Black Drop.....₩ lb 7 @10 c
Black Lampblack..₩ lb 20 @33 c
Black Lampblack, common .....₩ lb 7@15 c
Blue, Chinese.....₩ lb 35 @40 c
Blue, Prussian .....₩ lb 30 @40 c
Blue, Ultramarine..₩ lb 12 @18 c
Brown, Sienna, bur't ₩ lb 8 @12 c
Brown, Sienna, raw.₩ lb 8 @12 c
Umber, burnt.....₩ lb 7 @10 c
Umber raw.....₩ lb 7 @10 c
Brown, Vandyke....₩ lb 7 @12 c





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SHOVELS,
FIRE SETS.

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TROY NICKEL WORKS
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representing one hundred dollars—to enable you to put your business on a cash basis—do away with pass books——to prevent bookkeeping erro s. No disputes over accounts—no delinquent debtors or bad accounts. Used throughout the country now instead of credit system.



A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

FOR $1.25 We will send "**HARDWARE**" for one year and your choice of the following six premiums:

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. Made by one of the oldest fountain pen houses in America, and fully guaranteed. . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. Huebsch's Year Book . . . . (large size), 6x9 inches, bound in flexible cloth, made to last. IT IS YOUR BUSINESS MEMORY, and will not fail you

4. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters. If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

5. Half Dozen Photographs. . . . . Send us any photograph, with your name and address written plainly on the back, and we will return it to you together with six medallion copies of the original, mounted on celluloid, with a wire stand. We guarantee the medallions to be as good as the original. . . . . .

6. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint, printed headings. This practical Price Book is in almost universal use. . . . . .

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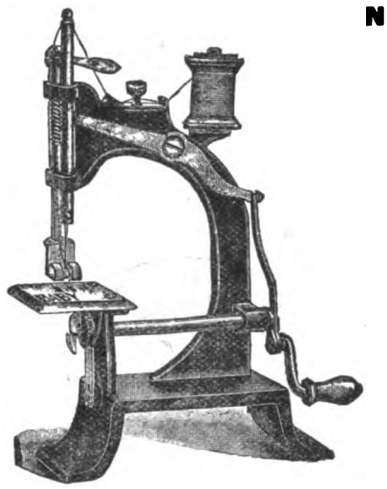
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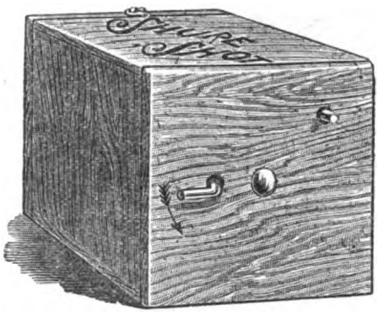
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In hopes of always securing the greatest "helps" to your business, "*HARDWARE*" is a "help." It helps the dealer to buy economically, and helps the manufacturer to sell extensively. "*HARDWARE*" for one year, and any one of the following attractive premiums sent post paid for ***$1.50.*** This offer applies to

NEW 1898 SUBSCRIBERS ONLY.



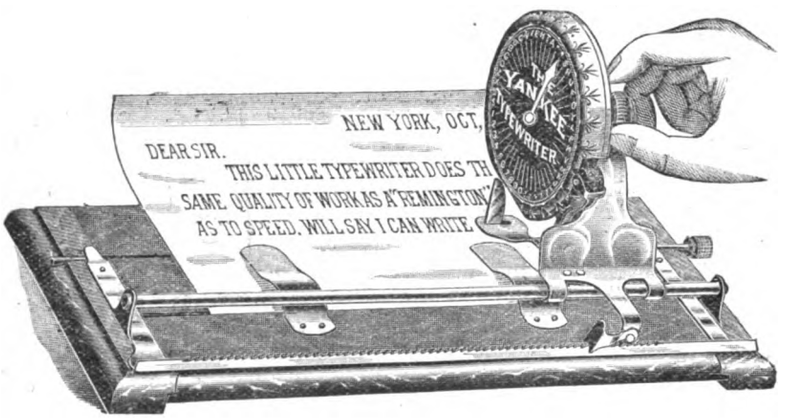
A perfect Sewing Machine. "The Baby" It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



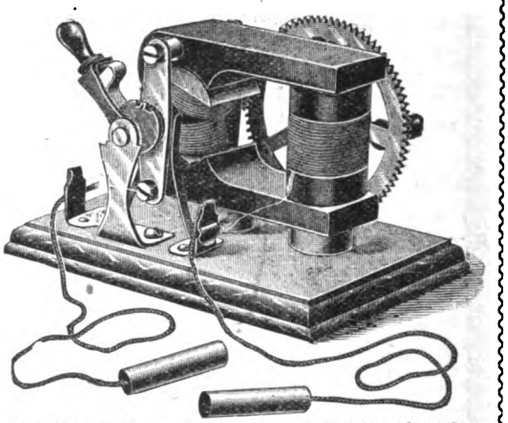
Just think—a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with higher-priced ones of which it possesses the best features, including an instantaneous shutter, adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewriter.—Will write 15 to 20 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine—A wonder of mechanical perfection. Supersedes the old style medical batteries, and gives a stronger current without the expense of renewals. It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know, and we'll put it there. The first column shows the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.**

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ART AMATEUR,	$4.00	$4.00
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CENTURY MAGAZINE,	4.00	4.25
CHAUTAUQUAN,	2.00	2.50
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HARPER'R BAZAR,	4.00	4.00
HARPER'S MAGAZINE,	4.00	4.00
HARPER'S WEEKLY,	4.00	4.00
HARPER'S ROUND TABLE,	1.00	1.50
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LIFE,	5.00	5.00
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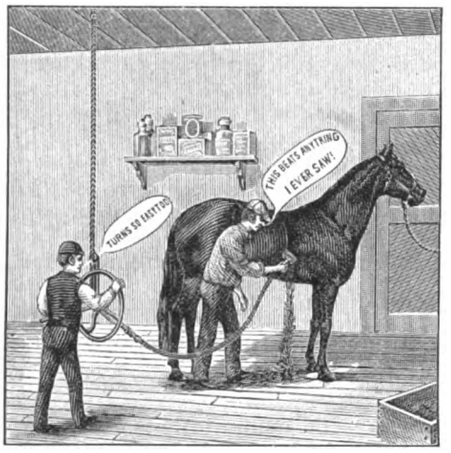
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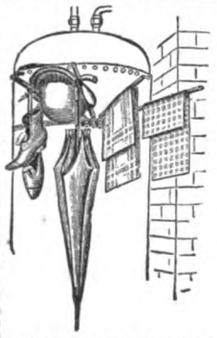
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John H. Graham & Co., N. Y.
White Mountain Freezer Co., Nashua, N. H.

Insurance.

Mutual Life Insurance Co. New York.

Iron.

Bruce & Cook, New York.

Iron Castings.

C. H. Angus, Albany, N. Y.

Iron, Perforated.

Harrington & King Perforating Co , Chicago.

Jail Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Japanning.

C. H. Angus, Albany, N. Y.

Keys.

Geo. W. Nock, Philadelphia.

Kraut Cutter.

National Saw Co., Newark, N. J.

Lace Leather.

John C. Hagan & Co., Manchester, Va.

Ladders.

Bicycle Step Ladder Co., Chicago.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.

John H. Graham & Co., New York.
Edward Miller & Co., Meriden, Conn.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Chimneys.

Parish & Unger, New York.

Lamp Stoves.

Plume & Atwood Mfg. Co., New York.

Lathing, Metallic.

George Hayes, New York.

Lawn Fountains.

E T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.

Clipper Lawn Mower Co., Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Supplee Hardware Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.

F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Ordner Mfg. Co., Cleveland, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Lead.

Bruce & Cook, New York.

Lead Pencils.

Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.

Berger Bros. Co., Philadelphia.
John H. Graham & Co., New York.
Logan & Strobridge Iron Co., New Brighton, Pa.
John Sommer's Son, Newark, N. J.

Levels.

Tower & Lyon, New York.

Lifters Automatic.

Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.

Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Geo. W. Nock, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Miner & Peck Mfg. Co., New Haven, Ct.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Watereury Farrel Foundry & Machine Co., Waterbury, Conn.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.
John Sommer's Son, Newark, N. J.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N J.
John Chatillon & Sons, New York.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Model Making.

Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster Pa.

Nuts.

Union Nut & Bolt Co., New York.

Office Railings

E T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.

Kendrick Valve & Washer Co., Syracuse N. Y.

Oilers.

Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co , Bridgeport, Conn.

Oil Stones.

Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.

Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Paints.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

Pipe Cutters.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

Planes.

C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.

Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.

Tower & Lyon, New York.

Polish.

John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Post Hole Diggers.

John H. Graham & Co., New York
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.

Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.

E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.

Power Hammers.

The Scranton & Co., New Haven, Conn.

Printers' and Lithographers' Blankets.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Prismatic Sidewalks.

Stewart Iron Works, Cin'nati, O.

Pulleys.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.

Boston & Lockport Block Co Boston and Lockport, N. Y.

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Chase Pump & Mfg. Co., Columbus, Ohio.
John H. Graham & Co., New York.
Hess Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
H. B. Rusler, Johnstown, Ohio.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
Charles Morrill, New York
Wm. Schollhorn Co., New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.

Railroad Brasses
Magnolia Metal Co., New York.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Bramhall Deane Co., New York.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.
See Traps.

Refrigerators.
Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Grand Rapids Refrigerator Co., Grand Rapids, Mich.
Gurney Refrigerator Co., Fond du Lac, Wis.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia

Reels.
Hartzell Novelty Works, Alliance, Ohio
Philadelphia Lawn Mower Co., Philadelphia.
John Sommer's Son, Newark, N. J.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Brandenburg & Co., Chicago.
A. L. Deane & Co., Denver, Colo.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
C. O. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros. Co., Philadelphia.
L. D. Berger, Philadelphia.

Roof Trusses, Iron.
Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Stephens & Co., Riverton, Conn.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Safe Deposit Companies.
National Safe Deposit Co., N. Y.

Sand Paper
Bacder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
Rufus E. Eggleston, New York, Philadelphia Chicago.
Irving Eiting & Co., Saugerties, N. Y.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York,

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.

Scales.
John Chatillon & Sons, New York.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
James F. Martin, Frankford, Philadelphia
Underhill, Clinch & Co., New York.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.

Screws.
Franklin S Miles, Philadelphia.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York,
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.

Shears and Scissors.
Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Seymour Cutlery Co., Holyoke, Mass.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

Sheet Brass.
Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
John Sommer's Son, Newark, N. J.
Troy Nickel Works, Albany, N. Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
John H. Graham & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Smoke Pipe Registers.
Ferrosteel Co., Cleveland, Ohio.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York

Spark Guards.
Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Stamps.
Schwerdtle & Siebert, Bridgeport, Conn.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Stencils.
Schwerdtle & Siebert, Bridgeport, Conn.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Plume & Atwood Mfg. Co., New York.

Stove Mittens.
Diamond Hardware Co., Boston.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J
J. L. Prescott & Co., New York.

Stove Trimmings.
Logan & Strobridge Iron Co., New Brighton, Pa.
Troy Nickel Works, Troy, N. Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co.' Cleveland, O.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

Structural Iron Work.
Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

Tackle Blocks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
Alfred Field & Co., New York.

Tailors' Irons.
Union Heater Supply Co., Detroit, Mich.

Tape Measures.
Alfred Field & Co., New York.
Keuffel & Esser Co., New York.
Waterbury Brass Co., New York.

Taps and Dies.
Holroyd & Co., Waterford, N. Y.

Targets.
Cleveland Target Co., Cleveland, Ohio.

Tiling.
New York Belting & Packing Co., Ltd., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Tinning.
C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

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Tin-Plate.

Bruce & Cook, New York.

Tires Rubber.

New York Belting & Packing Co., New York.

Toilet Paper.

A. P. W. Paper Co., Albany, N. Y.

Tools.

Armstrong Mfg. Co., Bridgeport, Conn.
E. C. Atkins & Co., Indianapolis, Ind.
Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Th. M. Hass, New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Traps.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.
Specialty Novelty Co., Lancaster, Pa.

Trowels.

E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.

Boston & Lockport Block Co., Lockport, N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.

Tubes, Seamless Drawn.

C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Valves.

Berger Bros. Co., Philadelphia.
Kendrick Valve & Washer Co., Syracuse, N. Y.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.

Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Ventilators.

Pancoast Ventilator Co, Inc., Philadelphia.

Vises.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Howard Iron Works, Buffalo, N. Y.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.

Sprague Umbrella Co., Norwalk, Ohio.

Washers.

Clark & Cowles, Plainville, Conn.
Kendrick Valve & Washer Co. Syracuse, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Union Nut & Bolt Co., New York.

Washing Machines.

W. R. Harrison & Co., Massillon, Ohio.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.

E. Imhauser, New York.
Nanz & Co., New York.

Wax Tapers and Torches.

T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Wheelbarrows.

Akron Cultivator Co., Akron, O.
Bryan Mfg. Co., Bryan, Ohio.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

Window Guards, Punched.

Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.

Samson Cordage Works, Boston.

Window Screens.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

Wire, Manufacturers.

Bruce & Cook, New York.
Dunbar Bros., Bristol, Conn.
Alfred Field & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago San Francisco.
Waterbury Brass Co., New York.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Cloth.

E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Goods Manufacturers.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Fuller Bros. & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
T. F. Welch & Co., Boston.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Gates, Fences and Fencing.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Stewart Iron Works, Cin'nati, O.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Lathing.

Edward Darby & Sons Philadelphia.

Wire Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Wire Work.

Edward Darby & Sons, Philadelphia.

Woodenware.

John Sommer's Son, Newark, N.J.

Wrenches, Manufacturers.

Armstrong Mfg. Co., Bridgeport, Conn.
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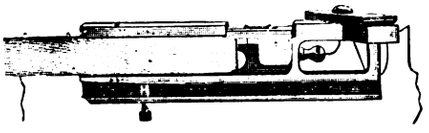
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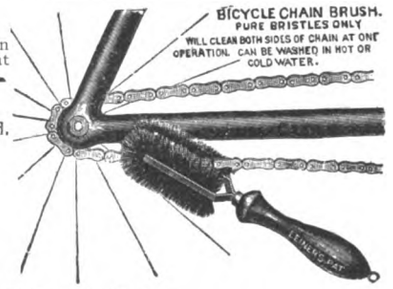
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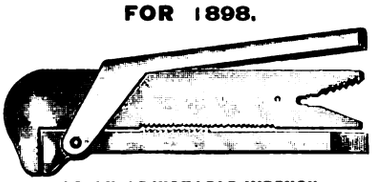


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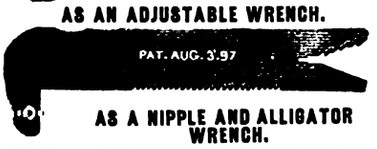
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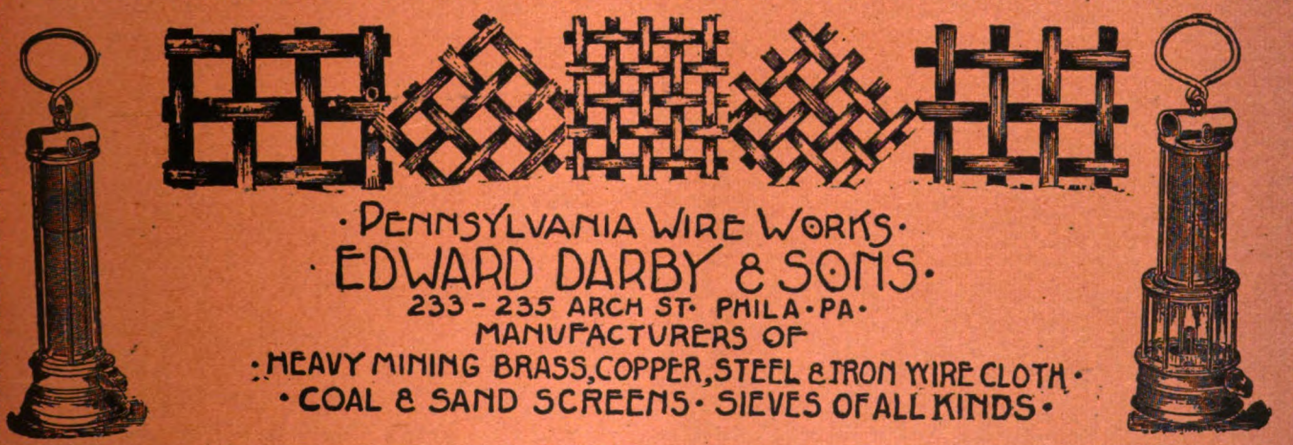
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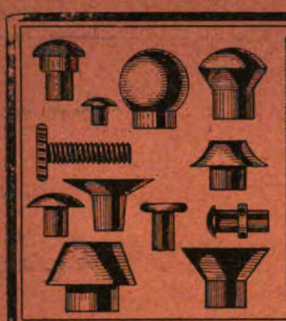


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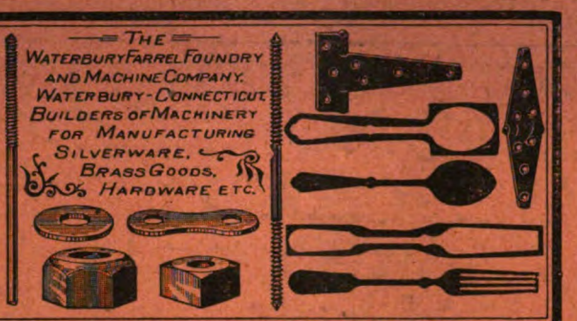
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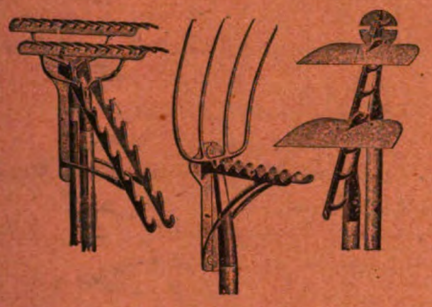
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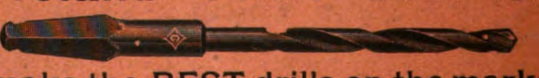


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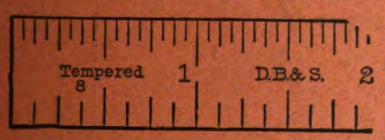
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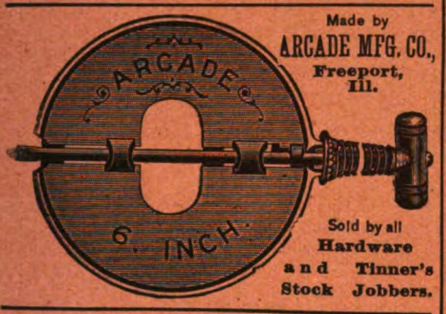
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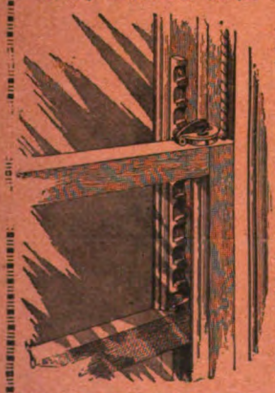
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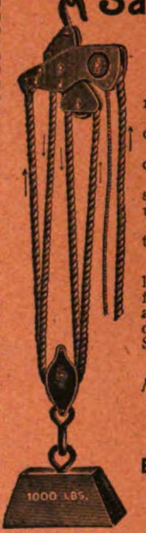
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Runs as freely as an ordinary rope tackle block.
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Allows the load to be lowered safely and slowly, the operator using only one hand.
Cannot stick nor jam when the load is to be lowered.

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Pulls the Cork out of the Bottle.

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Unsurpassed for penetration and pattern, burning slowly, strong and very clean.

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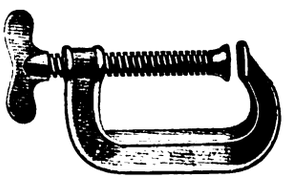
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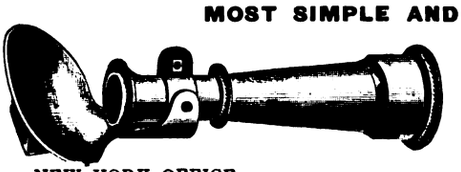
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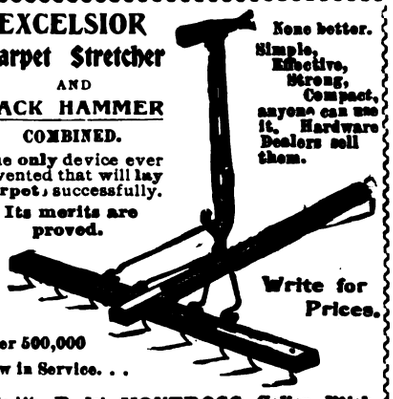
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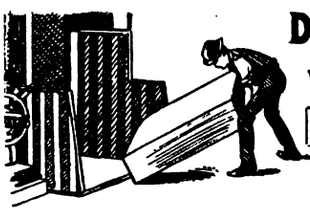
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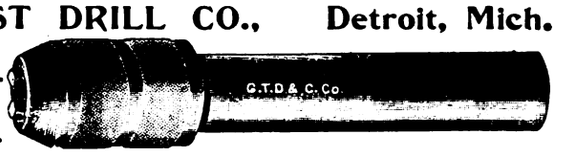
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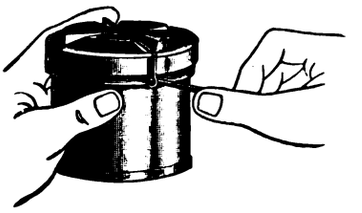


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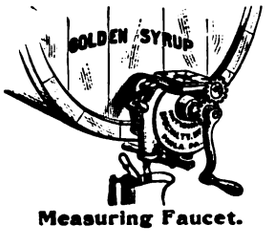
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HAVING made arrangements with the publishers of the "Wholesale and Retail Hardware Directory of the United States and Canada" for the balance of their 1897 edition, we are pleased to be able to offer the same on very liberal terms. This is the current edition, and no later one will be placed on the market before the fall of 1898. The list contains 24,872 names, arranged by States, with the ratings of each firm indicated opposite the name. . . . . .

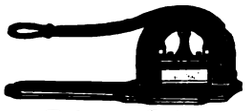
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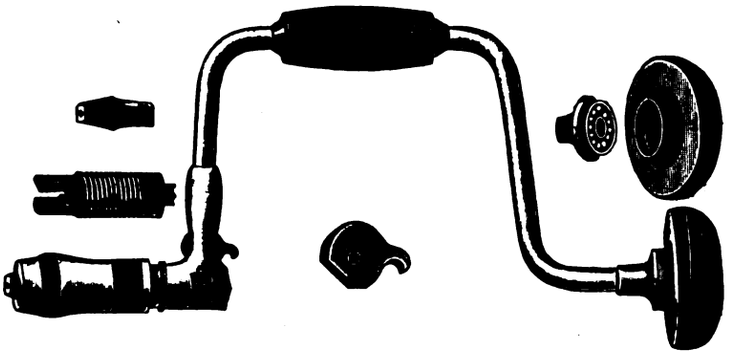
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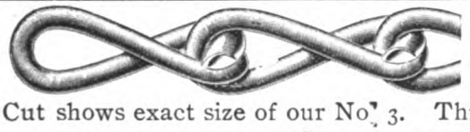
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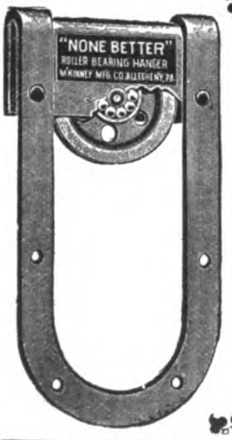


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Cut shows exact size of our No. 3. This Chain is Stronger and Lower Priced than the German Welded Chain. We are also makers of the celebrated "Triumph" and "Brown" Steel Wire Chains made into Halters, Kennel Chains, Traces, Cow Ties, Tie-out Chains, etc., etc. "Monarch" Sash and Plumbers' Chains.

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THEY WILL INTEREST YOU.

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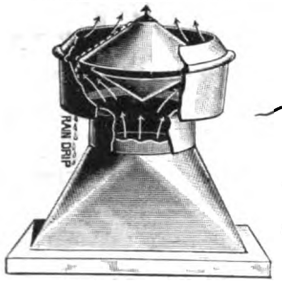
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Is now conceded to be the BEST VENTILATOR in use

TO VENTILATE Your Homes and Cottages
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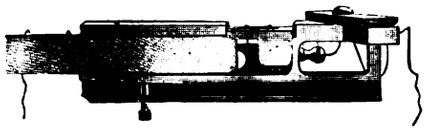
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See that your ventilators are marked "Pancoast," and take no other. Testimonials on application. Manufactured by the

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A Perfect Saw-Tool at Last.



It SETS to the hundredth part of an inch.
SIDEDRESSES in any required degree.
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Complete stock always on hand. Exclusive manufacturers and originators of the only Interchangeable Script Sign Letter. A fine line of House Numbers, Name and Door Plates, and Street Signs. Aluminum Trade Checks, Aluminum Bicycle Chain Guards, Aluminum Castings. We challenge comparison for promptness, quality, and prices. Illustrated Catalogue on application.

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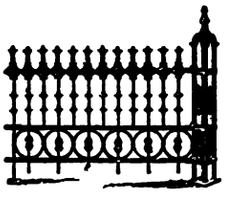
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Manufrs of Iron Fence, Jails, Architectural and Ornamental Iron Work.





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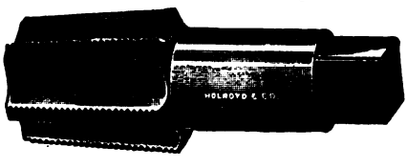
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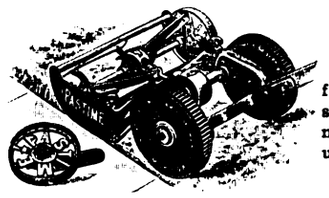
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IMPROVED 1898 MODEL.

This front cut mower trims to within ⅛-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

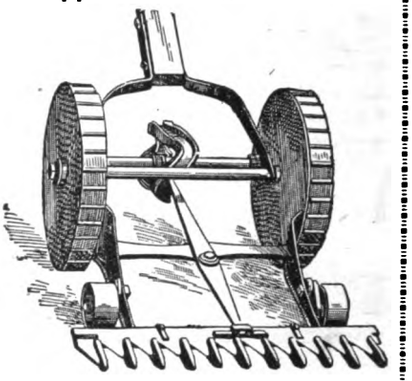
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Pastime Lawn Mower Co.,

We have the Best Weed Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

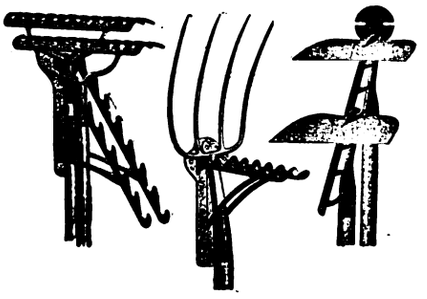
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That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**



CLIPPER LAWN MOWER CO.,

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DISPLAY BRACKETS

For Forks, Shovels, Rakes, Hoes, &c.

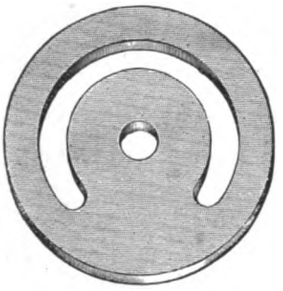
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Valve and Plunger Leathers.

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"The latest and best."

For sale by Jobbers at Manfrs. prices.



We are extremely desirous of interesting you in handling the Planet Jr. Farm Machinery and Implements. The benefits and advantages we offer you will fully correspond with the earnestness of our desire for business dealings.

These inducements are potent for profit—note three of the salient advantages. Quality and workmanship are unquestionably and absolutely the best obtainable.

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Write us for catalogue and full particulars of our goods and business methods.

S. L. ALLEN & CO., Philadelphia, Pa.

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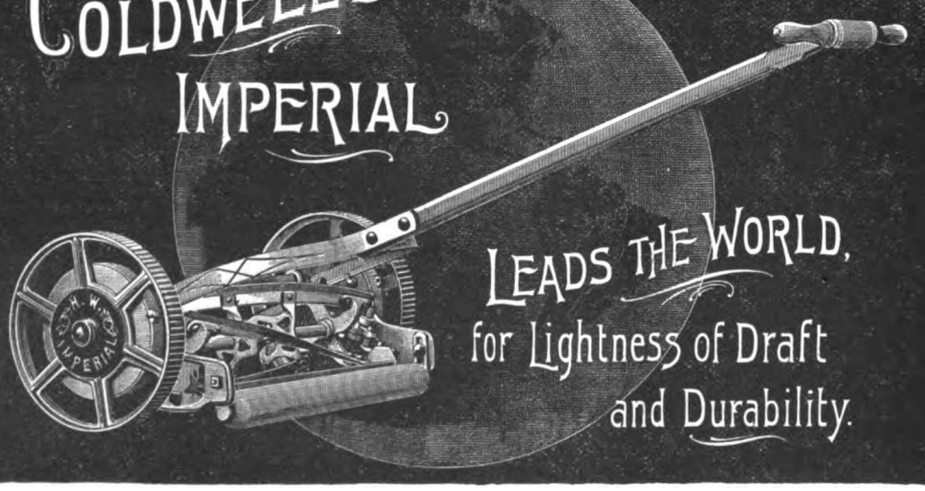
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They are made of leather, with fancy enameled handles. Will not break nor injure finest furniture or upholstery. Made in 4 lengths. Retails popular prices. Write for catalogue and price-list.

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113 & 115 Milk St.

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BUILT ON HONOR.

A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

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Wise dealers will buy Lawn Mowers that will give their customers satisfaction not only for one year but for years to come.

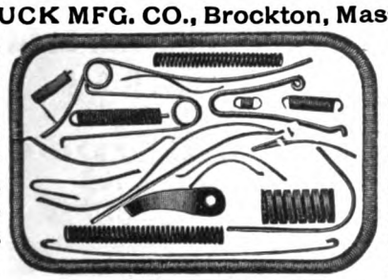
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Market and Fifth Streets, Philadelphia.

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LARGEST MAKERS OF LAWN MOWERS IN THE WORLD

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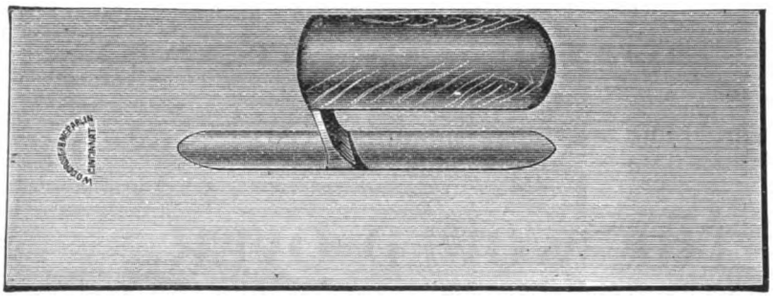
THE GENUINE "PHILADELPHIA" LAWN MOWERS

····· LAWN SPRINKLERS, LAWN SWEEPERS



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"There Are Others," But not the Genuine, ALL Imitations.



THE ONLY ORIGINAL

WOODROUGH & McPARLIN (CINCINNATI) PLASTERING TROWEL

——IS MFD. BY——

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"DUPLEX" WROUGHT BUTTS

Wrought Steel
Wrought Bronze
All Sizes and
All Finishes.

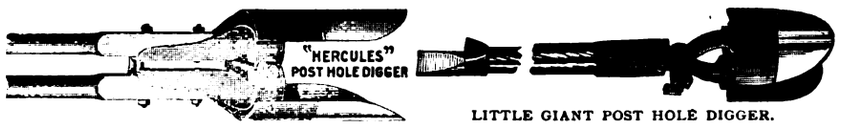
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The best made.

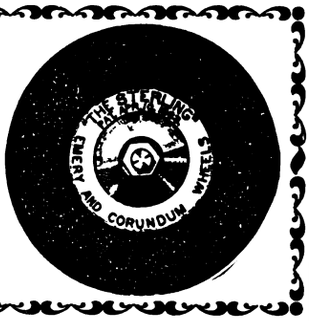
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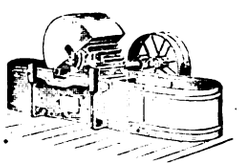
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Washer for Cleaning Rubber and Shoddy.

SPECIAL MACHINERY

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Do You Manufacture WIRE or SHEET METAL GOODS?

If so, you need the latest up-to-date

AUTOMATIC MACHINERY.

We have filled the wants of others in this line, why not yours?

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IS A GOOD ONE.

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A GOOD THING.

IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.

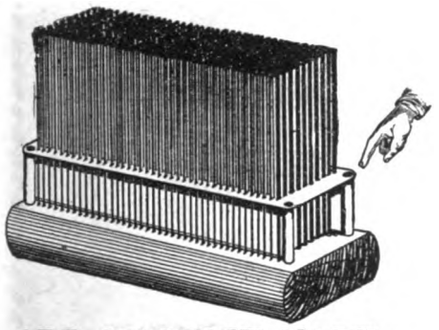


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Well, it gives surprising durability!

Our goods are Guaranteed unsurpassed in Durability, Workmanship, Material.

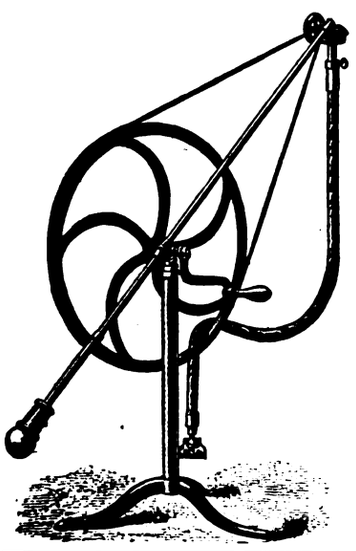
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ADVANCE ORDER FOR 3000 IN EUROPE ALONE.

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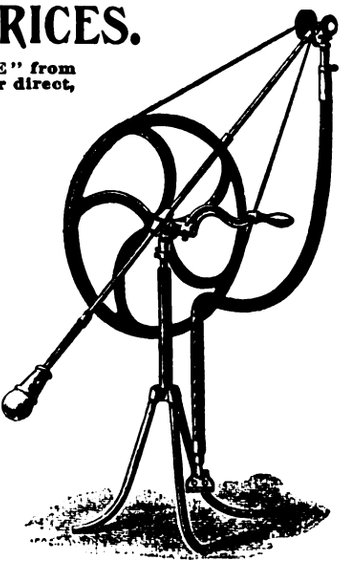
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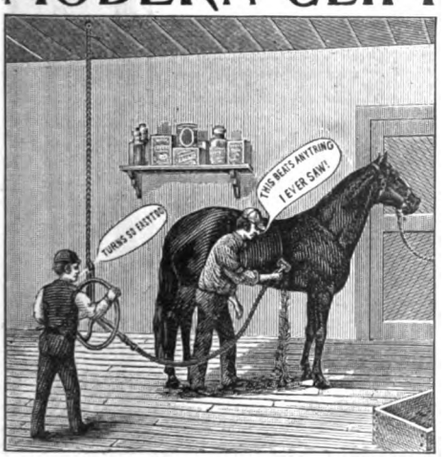
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Gillette Clipping Machine Co.,

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MODERN CLIPPING MACHINES



HAMMACHER, DELIUS & CO.,

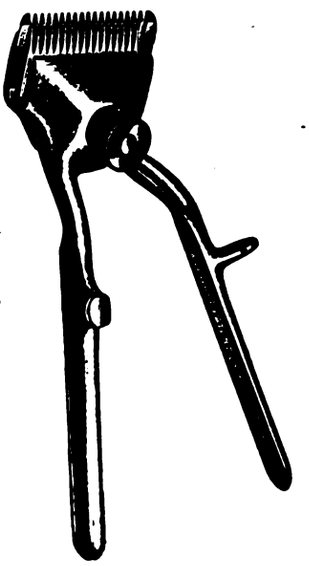
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RETAILS FOR $12.75.

All Hardwaremen can sell them. Get posted.

If you want the Best Horse Clipper Made ask your jobber for **"STEWART PATENT."** They will cost you no more than the inferior kind. **All Clippers** of our make are **Warranted** and are absolutely interchangeable.

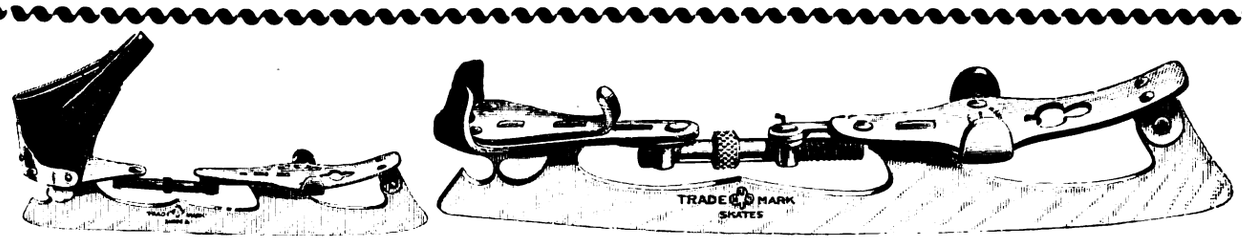


CHICAGO FLEXIBLE SHAFT CO

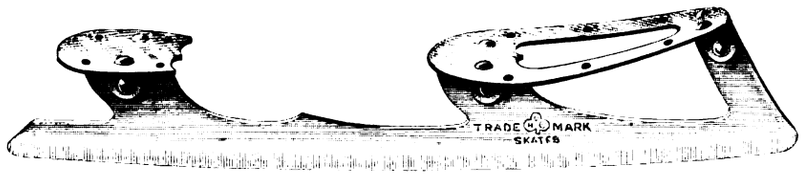
158-160 HURON STREET,

CHICAGO, ILL.

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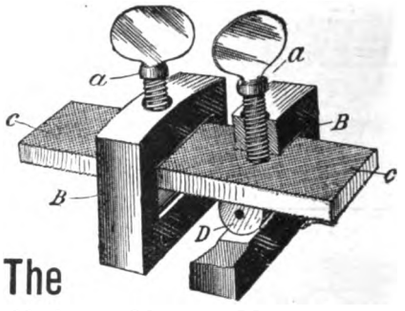


UNION CLUB SKATE.

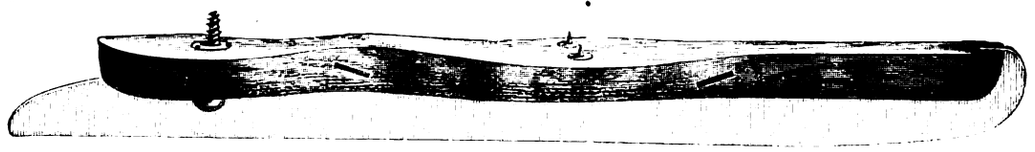




HOCKEY SKATES.



The Union Skate Sharpener.



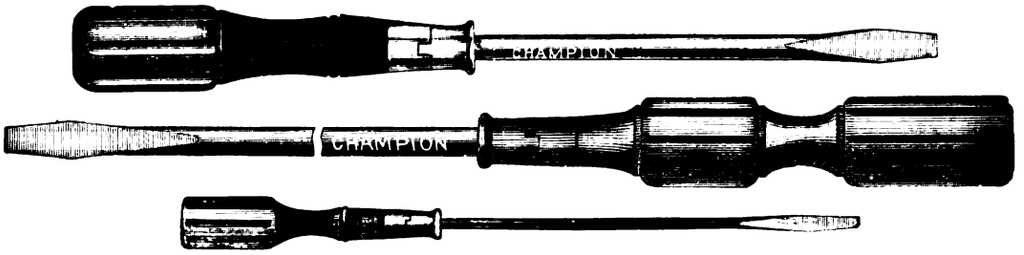
DONOGHUE RACING SKATE.

MANUFACTURED BY **UNION HARDWARE CO.,**

New York Office in charge of TOWER & LYON. **Torrington, Conn.**

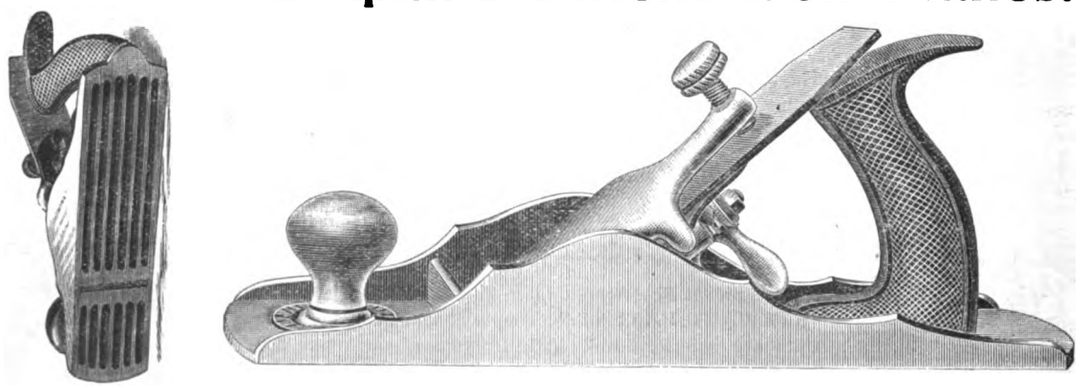
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TOWER'S CHAMPION SCREW DRIVERS.



See that the word "CHAMPION" is on each Screw Driver.

Chaplin's Patent Iron Planes.





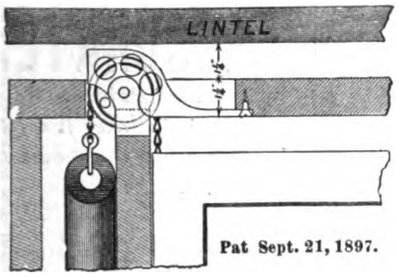
Improved Clarks Pattern. Lavignes Patent.

TOWER & LYON,

95 Chambers St., New York City.

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QUEEN SINGLE FRAME PULLEYS.



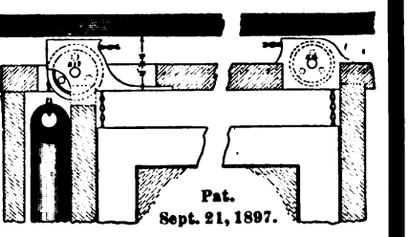
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No Extra Head-Room Needed.
No Grooving of Sashes.
No Lead Weights.

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QUEEN MULLION FRAME PULLEYS.



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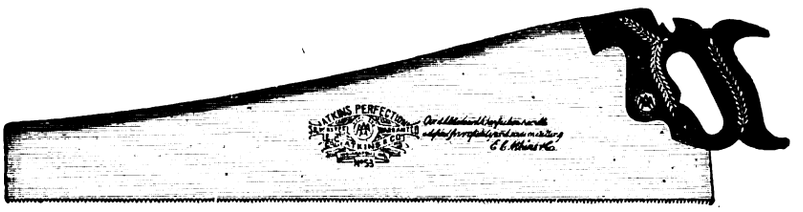
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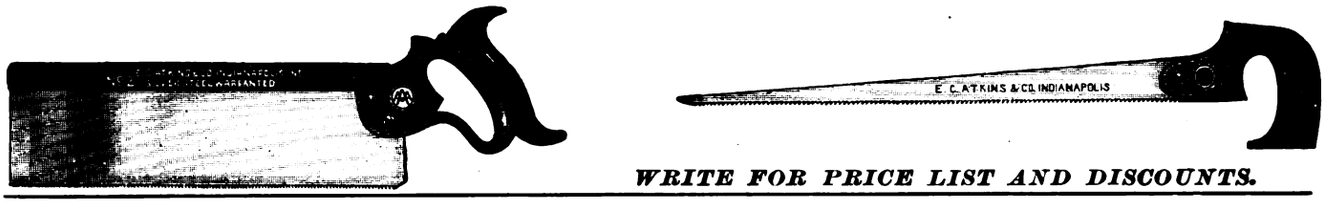
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WE MANUFACTURE EVERY KIND OF SAW USED.



SILVER STEEL.
FINE TEMPER.
BEST WORKMANSHIP.
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STEEL BALLS.

WE ARE THE LARGEST PRODUCERS OF STEEL BALLS IN EXISTENCE.

Automatic Machines for turning and finishing Cones, Cups, Screws, Nuts, Nipples, etc. Our machines are used extensively by nearly every prominent cycle manufacturer in this country and Europe.

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We have in stock and will make to order Seamless Heads, Hangers and Lugs, Cups, Cones, Crowns, Fork Ends, Brace Tips, etc., etc., etc.

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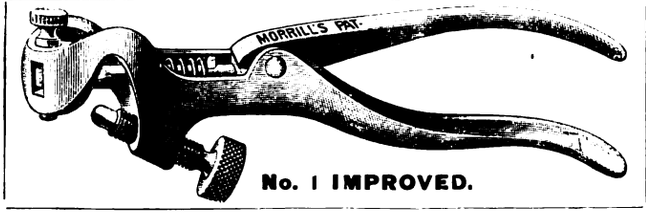
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For Hand, Band and Jig Saws, from the widest made down to 1-2 inch. The Sets are too well known for me to enlarge on them.

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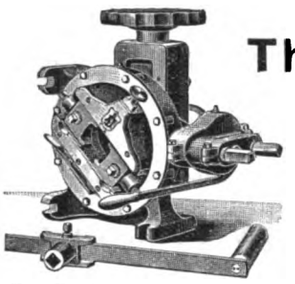
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THEY ARE ALL "STANDARDS" AND NEV DISAPPOINT. CATALOGUE!



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Remington Shot Guns

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Twelve Grades, $30 to $230

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"GOLD DUST" SMOKELESS.

QUICK—— 16 OUNCES TO THE POUND. ——CLEAN

Double the *loads* and for *less money* than in a pound of any other powder. Using 45 grains, one Pound will load 155 shells. . . Is effective with ordinary black edge wadding and cheap shells. . . . . .

Use GOLD DUST Graduate Measures.

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DISCOUNTS TO THE TRADE. SEND FOR BOOKLET.

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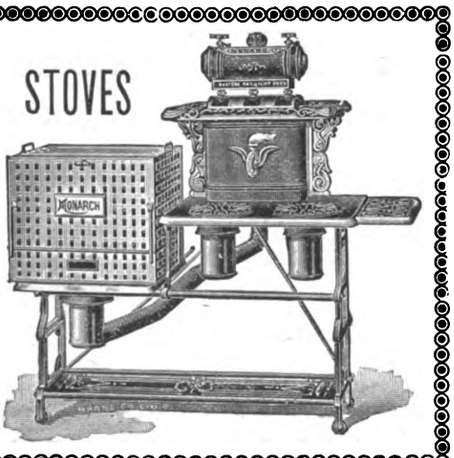
THE

MONARCH VAPOR COOKING STOVES

For Hot Weather, And Embracing—

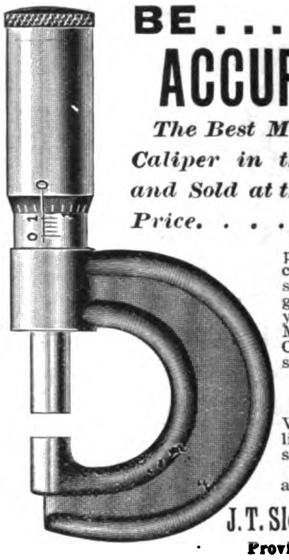
Cheap Stoves,
Complete Family Ranges,
Portable Ovens

And All Essential Features. . . .



The Monarch Stove Co.,

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BE . . . ACCURATE.

The Best Micrometer Caliper in the World and Sold at the Lowest Price. . . .

Why use expensive, inaccurate wire or sheet metal gauges when you can have Micrometer Calipers at the same price?

The Lightest Micrometer, only 1¾ oz.

We want all live dealers to sell them. Write for catalog.

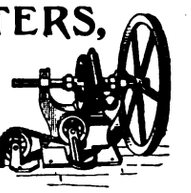
J. T. Slocomb & Co,

Providence, R. I.

The Columbia Safety Self-Retaining

DUMB WAITERS,

ELEVATORS,
Cellar Lifts
... AND ...
SPEIDEL'S ECONOMIC SAFETY HOISTS.



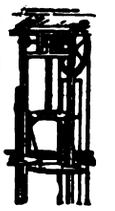
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Improved Quick and Easy Rising Steam, Electric and Hand Power

ELEVATORS



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No. 1, Japanned, $7.20 per dozen
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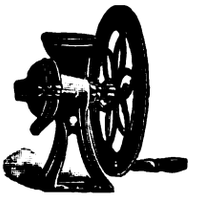
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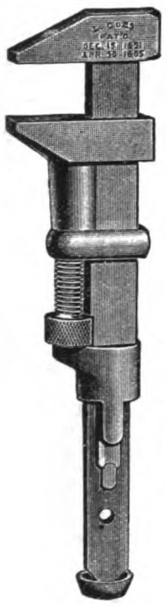
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Reasonable arrangements can be made. WRITE ME TO-DAY.

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Genuine Improved
KNIFE HANDLE
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Screw Wrenches.

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Sand Papers IN **Reams and Rolls**
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HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

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Established 1842.

WEED'S IMPROVED CUT — GUARANTEE SEAL — ALL FILES ARE FULLY GUARANTEED — SPECIAL TEMPER

Improved Increment Cut

THE BEST IN THE WORLD.

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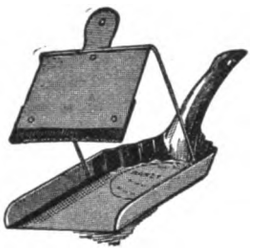
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Household Specialty.

A Sink Cleaner and Shovel Combined. . .

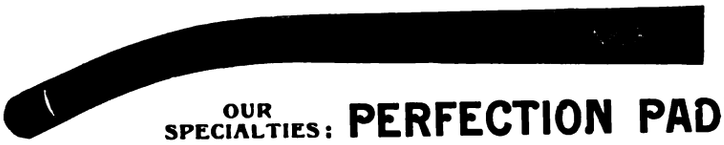
Tidy housekeepers will throw away the dirty sink broom and buy the **Dandy Sink Cleaner** on Sight. . . . . .

TRY IT AND BE CONVINCED.

For sale by all Wholesale Hardware Dealers, and by the patentee and manufacturer,

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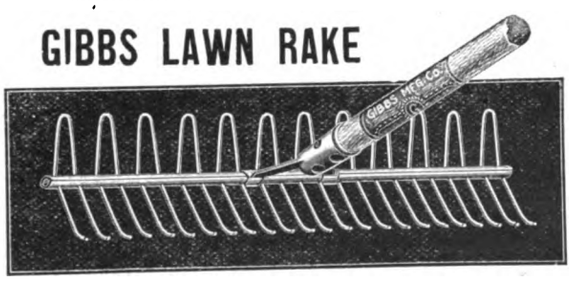
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All sizes, ½ inch to 2½ inches.

PROTECTOR REVOLVERS, THE GREATEST NOVELTY OF THE AGE.

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The Strongest, Lightest and Finest Looking ALL STEEL Rake ever produced. . . . .

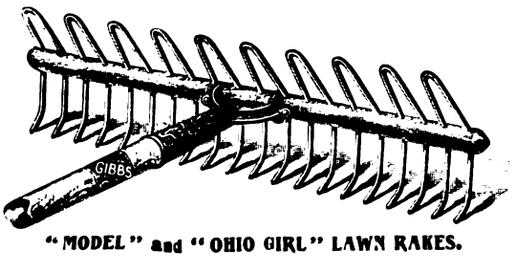
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Note the bend of the teeth—makes raking easy, does better work and won't tear up the sod. One of the special features of the **"Gibbs Rake."**

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LAWN RAKES AND POST HOLE DIGGERS

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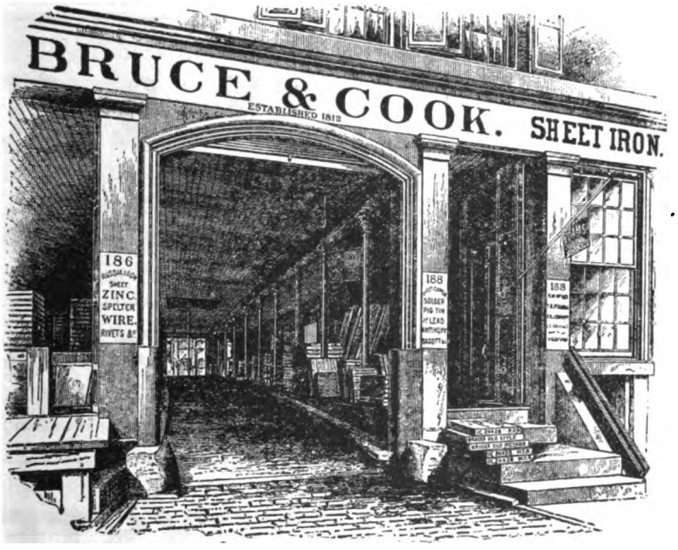
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BRUCE & COOK,

TIN PLATES AND METALS,

186, 188 and 190 WATER STREET,
248 and 250 PEARL STREET, . . . NEW YORK.

We give below a list of goods which we have in stock. You will find our prices as low as any in the trade, quality considered. It will give us pleasure to receive your orders, which shall have our very best attention and prompt shipment. . .



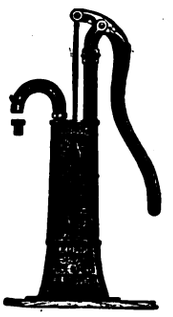
Antimony.	Gem Gasoline Furnaces	Roofing Seamers.	Taggers Iron.
Babbit Metal.	Gutter, Wide Roof.	Rosin.	Taggers Tin.
Boiler Rods.	Gutter Strainers.	Sheathing Paper.	Terne Plates.
Burritt's D'ble Seamer.	Hard Metal.	Sheet Iron--Char. Cl'd.	Tin--Bar and Pig.
Copper Bottoms.	Kettle Ears.	Sheet Iron--Cold Rol'd.	Tin Plates.
Copper Circles.	Lead--Bar and Pig.	Sheet Iron--Com. Cl'd.	Tin Shingles.
Copper Ingot.	Leader Hooks.	Sheet Iron--Corrugated	Tinners' Machines.
Copper Sheets.	Malleable Ears.	Sheet Iron--Galvanized	Tinners' Tools.
Copper Wire.	Mallets.	Sheet Iron--Planished.	Ventilators--Globe.
Corrugated Leader.	Metal Lath.	Sheet Iron--Russia.	Wall Hooks.
Cor. Elbows and Shoes.	Metallic Paint.	Solder.	Water Cut-offs.
Dampers.	Nails--Roofing Tinned.	Soldering Coppers.	Wire--Annealed.
Eave Trough Leaded.	Nails--Wire Roofing.	Spelter.	Wire--Bright.
Eave Trough Galvan'd.	Nails--Wire R'g Tinned	Spelter Solder.	Wire--Coppered.
Eave Trough Mitres.	Pail Woods.	Squaring Shears.	Wire--Galvanized.
Eave Trough Irons.	Perforated Tin.	Stove Boards.	Wire Tinned.
Elbows--Stove Pipe.	Ribbed Leader.	Stove Pipe.	Zinc for Etching.
Elbows--Adjustable.	Rivets.	Stove Pipe Collars.	Zinc Sheets.
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Manufacturers of the Most Complete Line of

DOUBLE-ACTING FORCE LIFT and WIND MILL PUMPS



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The ONLY Pump with ALUMINUM VALVE SEAT.

Write for Catalogue and Prices.

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PARLIN & ORENDORFF CO., St. Louis, Mo.

PITTSBURGH PUMP CO.

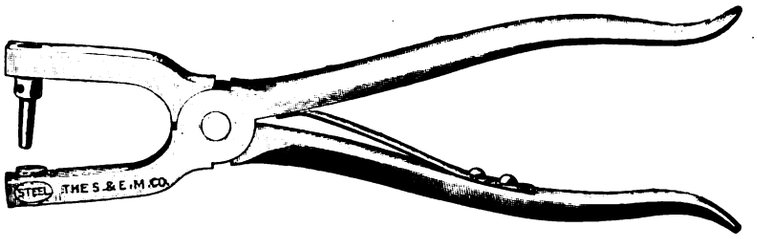
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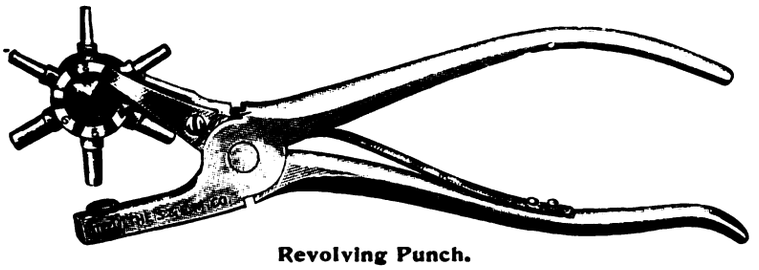
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Aladdin Lamp Co., Newark, N. J. [*Bicycle Lamps*]: We think that the Hardware trade is one of the best to handle the side line of bicycles and bicycle sundries, as it seems to be in perfect keeping with the other lines of goods which are kept in stock. We are also of the opinion that the trade will, in time, be controlled by a very few exclusive stores, and a large number of Hardware and carriage warehouses, where the bicycle can be sold at a legitimate price as a side line. Regarding HARDWARE it has always given us satisfactory results on investment made.

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You can get those of the best

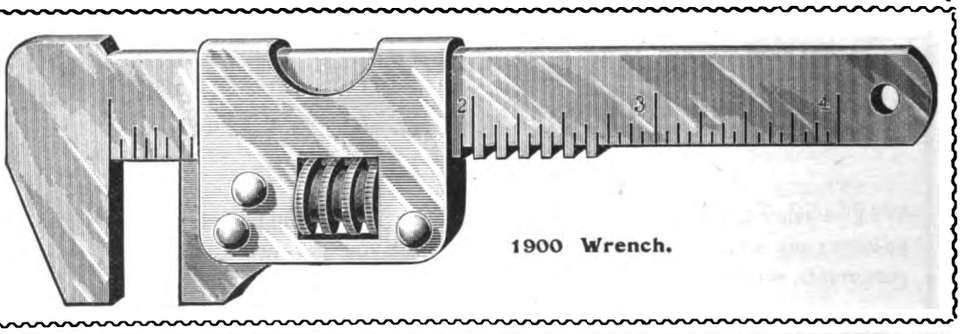
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TRADE MARK.



GOULD'S STEAM & WATER PACKING

Never sticks the Throttle.
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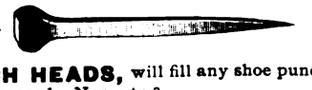
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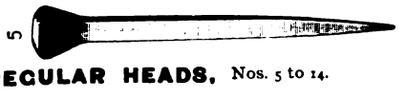
Special Machinery

Estimates made on all kinds of Special Machinery, Boiler Tube Expanders, Bicycle Tire Moulds, Moulds for all kinds of Rubber Goods, Hangers, Shafting, Clay Working Machinery, etc. Write for Estimates.

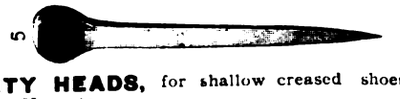
TURF NAILS, Nos. 1 to 5.



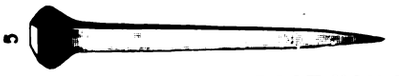
FRENCH HEADS, will fill any shoe punched or creased. Nos. 3 to 8.



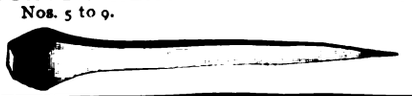
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COUNTER HEADS or **FROST NAILS,** Nos. 5 to 9.



A POPULAR SYSTEM

The increased sale of Putnam Nails for 1897 indicates that our present system is profitable and generally approved by the trade.

The high quality of the Putnam Nail makes it an easy seller at present prices.

Trade correspondence solicited.

For terms and discounts address

PUTNAM NAIL CO.,

Boston, Mass.
Or 235 Lake St., Chicago, Ill.
Or 12-14 Drum St., San Francisco, Cal.

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HARDWARE

VOL. XVI. FEBRUARY 25, 1898. NO. 10.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING. CINCINNATI, No. 103 LINCOLN INN COURT BLDG.

Subscription, $1.00 per year. Subscription, Foreign, $1.50 per year.

L. E. MITCHELL, - - President.
JAMES H. KENNEDY, - Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRED. A, CATON, - - Asst. Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

But little additional improvement is noticeable since our last issue. The weather conditions have not been favorable for the transaction of a naturally increasing local trade, and the general business was held in abeyance in consequence. Orders keep coming in to the manufacturers and jobbers from their representatives now on the road. The only drawback to a more complete resumption of business, in a volume especially favorable, is the continual effort made by nearly all buyers to place orders at prices too low for the manufacturers to entertain, with a profitable year's business fairly in sight. In lines of goods where a combination among the manufacturers enables them to be more certain of a controlled competition, stiffened quotations prevail and but little weakness is manifested, but in many other lines it seems very doubtful if the contemplated advances can be successfully maintained until the order books have their pages crowded with requisitions for the future at specified dates of delivery. The increase in trade generally throughout the country is, however, extremely encouraging, and comparisons made with previous years gratify the merchant, and impress him with the belief that 1898 will foot up finally in a manner satisfactory to all concerned.

The present stability of the Wire and Wire Nail market has had a good effect in strengthening the belief in a steady market for these staple productions. Any retrograde movement following the announcement of a combination seemingly so powerful would prove a disastrous element in the endeavor to place the Hardware market on a solid basis for spring trade. But the dealers are not ordering these goods with anything but a conservative spirit. Orders have been given without much speculative energy back of them. Retailers appear to be buying for their immediate wants only, and caution seems to prevail to a great extent. The export trade is in a condition of gratifying promise, and more attention than ever will be given to it this year by those progressive manufacturers who invariably need a safe outlet for a possible surplus product.

The Bicycle business of 1898 is gradually but surely recognizing the fact that the most desirable agents for the sale of wheels will be found among the aggressive Hardware dealers of the country who are firms of admitted probity and character, industrious and reliable. The cutting of list prices in two on wheels held only a year ago at a price of $100, lessens the net amount of profit that can be realized from a sale, and makes expensive the handling of cycles by special establishments controlled and paid for by the manufacturers, who find the expenses of distribution reaching figures on the sum total of which they need to call a halt. It would be better in the long run if all reputable wheels were handled under special privileges by some leading Hardware house in the principal towns, and without any especial limitations as to number of stores, in the larger cities. They would have every incentive to correct dealings and the business could be as directly under factory influences as though they ran their own stores under a doubly increased ratio of expense.

Now by St. Paul the Work Goes Bravely on!

A large number of Hardware buyers are in New York at the present time, many of them attracted, no doubt, by the dinner given on Monday evening last under the auspices of the Hardware Club.

In an exchange of views with a number of these representatives from many parts of the country, it is evident that a constantly growing sentiment is prevailing among the trade in the several States toward the formation of Hardware Associations, even more generally than at present.

It is not only important to notice that while the jobbers have formed their own associations, closely promoting important interests in their especial line of business, the retailers of the several States, having a much larger number of merchants from which to obtain the necessary accessions, are very generally taking advantage of the willingness of the trade and will form associations of their own in every State. These associations, while extending carefully the legitimate advantages arising from organization, will be able more thoroughly to concentrate their strength toward the limiting of the detrimental influences affecting all regular dealers by department store methods.

Good work may be looked for from this concerted effort on the part of the dealers who have everything at stake, and thus the power for evil to legitimate business at present prominent in the methods of this guerilla class of dabblers in Hardware shall be brought to bay. No methods could be conceived more demoralizing to all legitimate effort for marketing Hardware, or so injurious in the last degree to the well-being of an old established business, that in all large cities has taken years to build up and patience and skill to manage profitably.

The tried and steadfast Hardware dealers of the country have our sincere sympathy in the extending in every way possible the lines of goods naturally belonging to their commercial character and local supremacy, and we shall deem proper and desirable every

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commendable effort put forth under the combined influence of an aggressive convention of Hardware Associations. Let them be promulgated under the resourceful influences of the jobbers of the country, or through the powerful force and concerted energy of the retailers who in this matter admittedly "sit at the head of the table."

The Hardware Dinner of 1898.

Another annual festival of the Hardware and metal trades of New York has come, and in all the essentials of pleasant success must be counted by the side of the annual dinners which have preceded it.

A perusal of the full report, found elsewhere in this issue, of the annual dinner of the Hardware Club of New York, at the Hotel Waldorf-Astoria, on the evening of Monday last, will show that these occasions do not grow less successful and pleasant as the seasons pass. These dinners are a part of the history of the great movement toward better friendship and closer fraternal relations with the Hardware trade, that had its inception less than a decade ago, and out of which have grown the many associations that are now making history in all parts of the country.

New York Hardware Club.

At a recent meeting of the board of governors of the Hardware Club of New York the following gentlemen were unanimously elected to membership:

Hon. J. Donald Cameron, No. 253 Broadway.
W. P. Hatch, No. 253 Broadway.
Durant McLean, No. 299 Broadway.
Frederick M. Shepard, No. 86 Reade street.
Rufus E. Eggleston, Philadelphia.

At the same meeting a committee on nominations were appointed for the presentation of candidates to fill the places of the following members whose terms expire in March, 1898: Alfred D. Clinch, Charles Daly, Brace Hayden, Mortimer C. Ogden and Webster R. Walkley. The gentlemen constituting the committee on nominations are as follows:

Charles L Mead, chairman, Stanley Rule and Level Co.; George A. Graham, John H. Graham & Co.; Benjamin A. Hawley, Russell & Erwin Mfg. Co.; George Munson, Sargent & Co.; Thaddeus Smith, Union Nut & Bolt Co.

Inasmuch as Brace Hayden has been compelled by the death of his partner, Mr. Dunham, of the house of Dunham, Carrigan & Hayden, to make his permanent home hereafter in California, he will, of course, be unable to accept a renomination.

On Tuesday night last, the board of governors of the club transformed their regular monthly meeting into an occasion of farewell to Mr. Hayden, and all the members present expressed themselves in a most hearty and earnest manner in appreciation of Mr. Hayden's work as a member of the board since the inception of the club, and regret at his loss from an organization for which he had done so much. Mr. Hayden, although taken entirely by surprise, responded in a very happy manner, and expressed the sentiment that while he might be absent in body, his heart would always be with the club.

The annual meeting of the club will be held on March 19th, which is the third Saturday of the month.

The general offices of the National Association of Manufacturers, including the office of the president, Theodore C. Search, have been removed from No. 1743 North Fourth Street, Philadelphia, Pa., to the Bourse, Fourth Street below Market.

A Hardware Association Number of "Hardware."

On April 10th, 1898, *Hardware* will celebrate the eighth anniversary of its birth.

Hardware has certainly used its best effort for the promotion of neighborly friendship and good fellowship among the members of the trade. It has given freely of its space for the dissemination of news in regard to the great Hardware organizations which, since 1890, have become so grand a force for good in the Hardware world. It has by its voice, encouraged in every possible way the creation of organizations having for their purpose the bettering of trade conditions, and has been an enthusiastic supporter of every movement having for its purpose the good of the trade.

It occurred to us that the celebration of our anniversary of April 10th, 1898, could be made of signal usefulness to the trade everywhere, by the publication of a SPECIAL HARDWARE ASSOCIATION number.

It is our purpose, therefore, with that issue, to present a mass of valuable information in regard to the beginning and growth of the great forces or organizations which have accomplished so much in the way of acquaintance, better business methods, and the cultivation of fraternal regard. These sketches of the rise and growth of the organizations will be accompanied by portraits of various officers of the same, special articles from the pen of men who have been instrumental in the founding of these societies, and much else of interest in connection therewith. We feel that the time has come when the various steps which led to the creation of these forces within the Hardware trade should be gathered and properly placed upon record, and more especially as the information can now be secured at first hands, from those who assisted in this work.

We ask the hearty co-operation of Hardwaremen everywhere in this laudable effort, and our experience of the past leads us to firmly believe that the same will be given with a generous willingness which shall be very effective in its results.

A representative of *Hardware* who called at the works of the Putnam Nail Co., Neponset, Boston, Mass., was informed by W. W. Whitmarsh, treasurer of the company, that their new system "has been successful and satisfactory to all concerned." "Although the company," Mr. Whitmarsh added, "deal more largely with the general jobbers of the country, the present system seems to be gaining in favor with the large jobbers, as well as with the trade generally." He also stated that a majority of the large jobbing trade are now handling their goods.

A valued subscriber to *Hardware* wishes to correspond with the manufacturers of machinery for making wood baskets, both splint and stave. If anyone who is able to fill this bill will kindly notify *Hardware*, we will take pleasure in seeing that this information is put into hands where it will do somebody good.

The cost of space is the least important element in advertising.—*Exchange.*

HARDWARE is printed for men now on earth.

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COMMENDING OUR SPECIAL EDITION.

PRESIDENT HARDWARE CLUB OF NEW YORK.

Editor Hardware: I have read with no little interest your editorial of February 10, 1898, in which you state that on the eighth anniversary of *Hardware*, in your edition of April 10th, 1898, you intend to publish a special number devoted to the Hardware Associations of America.

While congratulating you upon the great success of your paper, and believing that the value of such a publication to the trade, not only in this country, but throughout the world, cannot be estimated, I wish to commend you specially for your decision to publish the special edition above noted.

No one can understand, who has not thoroughly studied the question, the great amount of good which has been done to the Hardware trade, and to the business world generally, by the formation of the various Hardware Associations which are now found in almost every State in the Union, many of which are national in their character, and nearly all of which have been established during the eight years which have elapsed since the beginning of your journal.

It seems to me an appropriate time to gather up the points of history connected with these various associations, and to place the same upon record. Personally and officially, I shall be pleased to assist you in all possible ways in the carrying of this excellent project into execution.

Yours very truly,

PETER MCCARTEE,

President Hardware Club of New York.

New York, Feb. 14 1898.

PRES'T MERCHANTS' & MANUFACTURERS' ASSO. OF PHILADELPHIA.

Editor Hardware: It gives me great pleasure to learn that *Hardware* is to celebrate its eighth anniversary, especially as I have watched its growth from the very start, and have done so with considerable interest, as I have always found it a bright, newsy paper, and one which has probably been a benefit to the trade in general.

I understand that it is your purpose on April 10th to issue a special edition devoted to the Hardware Associations of the United States, and as, as far as I know, these associations have never been treated as a whole, we think that a presentation of the subject in this way would be of considerable interest, and will be very happy to aid you as far as is in my power—particularly in view of the fact that I believe our Philadelphia Hardware Jobbers' Association to be the oldest in the country.

With congratulations on your anniversary, and best wishes for your future prospects, I am,

Respectfully yours,

Philadelphia, Feb. 12, 1898. JAMES H. RITTER.

NEW ENGLAND HARDWARE DEALERS' ASSON.

Editor Hardware: I have read your editorial in the issue of February 10th, and it meets with my hearty approval. It seems to me that your paper can do no better work than to encourage in every way the Associations which were formed, and are forming so rapidly in the several States. The New England Hardware Dealers' Association, organized March 15, 1893, remember with pleasure your efforts in their interests. While our Association is flourishing, and we believe that the association of its members with each other has done much toward mitigating the evils attendant upon close competition, we still need the influence of the press, and especially of our Hardware papers, to extend the knowledge of the Association and its doings. I would like to take this occasion to say that in my opinion any National Association should be, in fact, as well as in name, broad enough to include representation from every association in the United States. I took occasion to state my views on this subject at the forming of a National Association in Chicago, at the time of the World's Fair, as I did not think that Association was broad enough in its scope, and it seems to me that the present National Association is hardly able to take in every association in existence. We would say that the New England Hardware Dealers' Association includes in its active membership both jobbers and retailers, and you will know that the distinction between these two classes in a great many cases is very fine.

Trusting that the issue in question will accomplish the results for which you are seeking, and that *Hardware* may have a prosperous new year, I am,

Yours truly,

D. FLETCHER BARBER,

Boston, Mass., Feb. 12, 1898. President.

NEW ENGLAND IRON & HARDWARE ASSOCIATION

Editor Hardware: It is with much pleasure that I learn of your intention to celebrate your anniversary with a "Special Hardware Association number."

It has been proved beyond doubt that intelligent and brotherly co-operation, as exemplified in national, state and city organizations, have produced wonderful results during the depressed conditions of the past four years. The support and endorsement accorded through your columns is fully appreciated.

May long years of activity and prosperity be your reward. Very sincerely yours,

L. C. CARTER,

Boston, Mass., Feb. 15, 1898. President.

PRES'T MINNESOTA RETAIL HARDWARE ASSOCN.

Editor Hardware: I read with much interest your editorial in *Hardware* of the 10th inst., and your idea of making the anniversary edition of the same, one devoted to Hardware Associations, is a good one. The retail Hardware trade throughout the United States is suffering from many evils which could be alleviated through organized effort, and a full discussion of these evils and their remedies, through the medium of trade papers, would assist in the formation of such organizations when they do not already exist and would aid those already formed.

Any information or assistance we can render you in this work will be cheerfully given.

Respectfully,

St. Cloud, Minn., February 18, 1898. CHAS. F. LADNER.

PRESIDENT MICHIGAN HARDWARE ASSOCIATION.

Editor Hardware: I am very glad to learn that you will devote your anniversary number, April 10, especially to the history and interests of the Hardware Associations of America. This is a splendid idea. The vast amount of capital invested by very many of the most progressive, enterprising and intelligent citizens of this country in the Hardware business is entitled to the favorable recognition and encouragement of your valuable paper, and no doubt will be read in every quarter of the land.

As you are thoroughly familiar with the organization and progress of the Michigan Hardware Association, I will not encroach very much on your good nature or valuable time,

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only to say that the future of the Michigan Hardware Association looks brighter than ever, and no doubt we will have the largest representation at our next annual meeting in July at Detroit that we have ever had.

I am now preparing a route and list of names of dealers in all the larger cities in the State, on whom I shall personally call during the month of March, and endeavor to explain the objects and advantages of the Association to them and solicit additional memberships.

I cannot understand why so many of the wide-awake dealers in Michigan and other States have not identified themselves and taken an interest in the State Associations, but have no doubt very many will do so, when the benefits to be derived by membership in State Associations are better understood, and I hope will eventually lead to the organization of a National Retail Hardware Dealers' Association.

Wishing your valuable paper HARDWARE continued success and prosperity, which you so much deserve, I am,

Yours truly, CHAS. F. BOCK,
President Michigan Hardware Association

Battle Creek, Mich., Feb. 17, 1898.

SECRETARY OHIO HARDWARE ASSOCIATION.

Editor Hardware: I am greatly pleased to notice by your editorial in the HARDWARE of February 10 that you contemplate a special Hardware Association number in the near future.

As one who is now and has been deeply interested in the welfare of the Ohio Hardware Association, I hasten to express my hearty approval of this project.

This is an age of organization. The intelligent, progressive, active Hardware dealers are found in these associations, in order that they may avail themselves of advanced business ideas and methods. Such a number of HARDWARE must surely be of great benefit to both State and local organizations, and also in an indirect way to the dealer.

Respectfully,

JOHN F. BAKER,
Secretary Ohio Hardware Association.

Dayton, Ohio, Feb. 16, 1898.

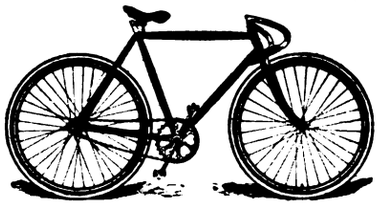
They All Like the Ladder.

A representative of *Hardware* who called at the office of the Bicycle Step Ladder Co., Chicago, was informed by the manager of the company, E. M. Murray, that the new year had begun very auspiciously, orders showing decided improvement over the corresponding period last year. This is particularly significant in view of the fact that the company have done a very large business ever since the specialty was placed upon the market. They are in constant receipt of unsolicited testimonials from users as to the efficiency of the ladder. A recent purchaser in McGregor, Iowa, in forwarding exchange in payment for ladders purchased by him, adds: "I wish to say right here that this is the best investment I have ever made in its line. The ladders do all that is claimed for them and attract a good deal of attention. I would not run the store without them under any circumstances." A purchaser in Marion, Iowa, writes that his concern is well pleased with its purchase. A buyer in Mankato, Kan., says: "The ladders are perfect. We could not do without them." A letter from Greeley, Colo., reads: "We find the ladder without a fault and just as convenient as it is complete." A firm in Ely, Minn., writes: "The ladder works perfectly, and proves to be all that is claimed for it." A purchaser in Carey, Ohio, writes: "We have the ladder up and it works like a charm. We conld not ask for anything better." A Hardware dealer at St. Charles, Ill., says: "The bicycle ladder is a great success with us. I believe it is one of the best investments I have ever made."

HARDWARE'S "Prices Current" are reliable.

The Tryon Co.'s Line of Wheels.

Edw. K. Tryon, Jr. & Co., Philadelphia, Pa., who are so well known because of the high quality of the goods which they handle, have issued an attractive catalogue of their Apollo, Vesper and Juvenile bicycles, two of which we illustrate in this connection. The catalogue has been very artistically prepared and beautifully printed in colors, with illustrations of the wheels, and the various parts connected therewith. The company state that "Nothing but praise comes from those who have ridden the Apollo, and although no defects or weaknesses in construction have appeared, we have gone on improving the wheel wherever it was possible to do so. It has always been our policy to keep in the front rank with improvements, and this year is no exception to the rule." In reference to their 1898



Apollo they say: "Our '98 Model embodies in its construction all the latest improvements that mechanical skill and device have thus far suggested, taking care not to allow theory to interfere with strength and safety. The materials used are the best that money and experience can purchase, and the equipment throughout is the best. Frames are made of 1¼-inch Shelby tubing, swaged to 1⅛-inch at connections. Flush Joints reinforced at every point, solid seat-post lug by which we discontinue the use of bolts and nuts. The seat-post and handle-bars are held in place by patent expanders, which gives the machine a neat and trim appearance. To insure a true and easy running machine, we have fitted a spool, turned from bar-steel, into the hanger which forms the cups. The spool is placed in a chuck and both cups ground, making the bearings absolutely parallel. This mode of construction obviates the



trouble found in most cheap wheels, where the bearings will be tight at one point and loose at another. We will furnish three heights of frame—22, 24 and 26 inches in men's; 20, 22 and 24 inches in women's. Drop of frame in regular road wheel, 2½ inches; road racer, 3 inches."

This description is followed by full mention of the various parts, and anyone who examines the catalogue carefully can fully understand the character of the product therefrom.

They further state that two years ago they placed on the market the Vesper wheel, which has given first-class satisfaction, and fills the demand that has arisen for a cheaper wheel. In juvenile bicycles they handle the Cycloe for boys and the Fairy for girls, both of which are fully described in the catalogue, which will be sent on application.

A lock especially designed for use on freight cars has been devised, whereby the doors may be securely closed by a lock located within the car, with only its operating spindle appearing at the outside. The lock is provided with a dial or disk containing a combination, which, together with the handle or knob, may be quickly and conveniently removed from or placed in engagement with the locking spindle to bolt or unbolt the lock.

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The Speirs Mfg. Co. Wheels.

The Speirs Mfg. Co., Worcester, Mass., are very busy at their large factory getting out orders for 1898 goods. This concern has always been able to secure all the business it could take care of, and as they make almost the entire bicycle in their factory, are able to keep the cost of manufacturing down to the lowest point, at the same time keeping the same high standard of excellence as in the past.

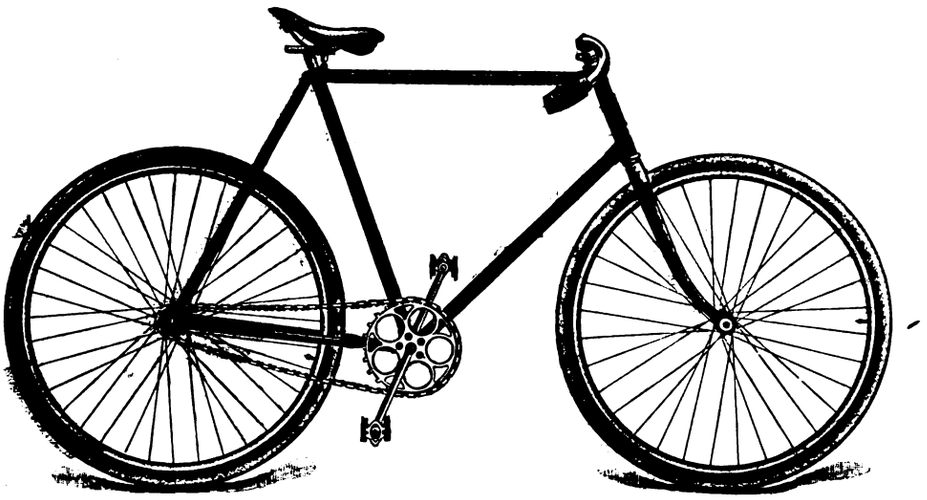
This concern, which is one of the oldest in New England, has recently added a very large addition to the factory and put in some of the finest bicycle machinery yet produced, and is fully equipped with tools for making of each separate part; constructing each part of the wheel at their factory and know it is made of the very best of material, and that each part is given the care it needs.

The Speirs barrel hub is turned from the solid bar of special steel, and is fitted with removable ball cases and retaining washers. The rear sprocket is detachable and is forged from special steel and accurately made. "Each cone, ball track, etc., is carefully gauged, tempered, ground and tested before being put in its respective place, thereby insuring a perfect running bearing. All parts of the Speirs bicycle are interchangeable, which will readily be appreciated by the riding public." As they make their own drop forgings, it may be of interest to some to know that out of 15 tons of forgings there are 13½ tons of borings, leaving 1½ tons of stock to be used in frames, which shows the large expense they go to to get the desired results. While it is admitted that some stampings apparently give good service, this concern is satisfied that the only way to secure perfection is to use nothing but forgings throughout, even at a much greater cost.

Their factory is one of the finest equipped factories in New England, being well lighted and ventilated and having its own water supply and electrical power. The factory at present is running night and day, and in the busy season employs 500 skilled hands. The company pride themselves on the fact that they run their factory twelve months in the year, while a great many of the bicycle manufacturers shut down during the summer months and start up again late in the fall.

The Speirs Mfg. Co. manufacture five different styles of pedals and three different styles of hubs, and while they sell many thousand pairs to American manufacturers, the larger part of their product finds its way to England and the Continent. Speirs' hubs and pedals are well known and well thovght of throughout the European countries. The firm's export agents for America are Guiterman, Rosenfeld & Co., No. 35 South William Street, New York City, and for England, S. Guiterman & Co., Nos. 25 and 36 Aldermanbury, London, E. C.

The company say: "The Speirs bicycle is made to meet the requirements of the average rider who wants a light wheel and one that will stand up on all kinds of roads. We make two styles of '98 wheels. Model A is made of the best cold drawn seamless steel tubing, 1¼ inches in the front diamond, ¾ inch in the rear forks, 1⅛ inches head, 1 inch seamless steel fork sides, all flush joints. Model B machine is made of the best cold drawn seamless steel tubing, 1⅛ inches in the front diamond, ¾ inch round in the rear forks, 1¼ inch head and 1 inch seamless steel fork sides. All connections are forgings, and all are on the outside, with the exception of the seat post clamp, which has a flush joint. Both machines list at $60. There are three heights of frames in both ladies' and gents', with 2¼ inch drop in crank hanger. Ladies' are 20 inches, 22 inches and 24 inches. Gents' are 22 inches, 24 inches and 26 inches. Drop forged oval nickeled fork crown and two piece cranks are used. Model A has round and Model B has oval cranks. Machines are highly finished in colors: black, maroon; Brewster and Sterling green. Forks will be nickeled part way up if desired. All bearings are positively dust proof, being fitted with dust shields, and all are fitted with ball retainers. Handle bars furnished are with either raised or drop curve, adjustable wood or Speirs' adjustable steel bar. Chain used is the Speirs' ¼ inch, B block and B link, hardened steel blocks and pins, which is carefully tested at 1200 pounds before using. It is accurately made, running over the sprockets very smoothly and with very little friction. Any gear furnished up to and including 100. Correspondence is solicited from jobbers and dealers." A very pretty catalogue can be had for the asking.



Ferracute Machine Co.

The Ferracute Machine Co.. Bridgeton, N. J., manufacturers of presses and dies, have for many years past made a specialty of foot presses for working thick sheet metals. They have taken up a number of difficult problems in the way of producing various articles from sheet metal, which were formerly cast. They some time ago furnished a large outfit to a government shop for making a sheet metal box, which was formed up from the flat at sixteen operations, all of the holes and shoulders, etc , coinciding so perfectly that rivets were inserted without reaming the holes. This was considered by those who have seen it one of the most perfect pieces of die work that has ever been turned out.

They have furnished to a number of the large Hardware manufacturers outfits for making knobs in two pieces, (which are forced together so they resemble a cast knob), which are much lighter, and can be produced at a fraction of the cost of the cast and turned knobs. They have also produced various other articles in sheet metal in the Hardware line. They make a specialty of presses and dies for shells and other deep drawn work. They have just issued a large circular or poster, illustrating a number of their presses.

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Saw Factory of E. C. Atkins & Co.

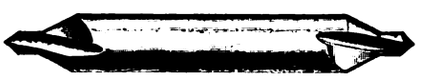
We find in the *Indianapolis (Ind.) Journal* for February 6th, the following interesting description of the great saw factory of E. C. Atkins & Co., of that city; it is a very comprehensive description of a famous establishment:

"Manufacturing concerns in these days of trusts and combines begin where their fathers left off. They start big and strong with a million dollar capital and a capacity for supplying the country with everything in their line before a wheel is turned. But it's the old-fashioned, slower-growing kind, after all, that we believe in—the concerns that start small, and, by push and merit, grow big and strong. Indianapolis itself has grown this way from a little town to a big, healthy city, and she has seen some of her big manufactories growing up with her. Atkins saw factory is one of these. Few of us can remember when E. C. Atkins & Co. were not making saws at the corner of South and Illinois Streets, but we of the present generation have noted a great growth in the business, have seen it go forward with strides, until to-day it has become an immense concern, its plant covering acres of ground and requiring at least a dozen big fire-proof buildings, three, four and five stories high, in which to carry on its vast business. Nothing can be more interesting than a walk through this factory. A single saw seems a small affair, but when these small saws are made by the ten thousand one can realize that it takes a great deal of room, a great many men and powerful machinery to make them. Yet most people can have very little idea of how much must be done to make even one good saw, the many processes it must go through and the many intricate machines that must handle it from the time it ceases to be a bit of plain block steel until it becomes a finished tool, bright, sharp and true, ready for work.

"Then there are saws and saws, big circular saws seven feet in diameter, and little circular saws two inches in diameter and all sizes between, band saws from ten feet long, one-eighth of an inch wide, to fifty-six feet long, fourteen inches wide; cross-cut saws of endless variety; hand saws, buck saws, meat saws, kitchen saws, pruning saws, saws for cutting iron and brass and special saws for every use that saws can be put to. And as saws are the one thing that the whole world uses, it can be seen what a market there must be. E. C. Atkins & Co. send their product pretty much all over the world. Maine furnishes them some of their best customers, and they ship to the Pacific coast by the carload. Branch houses at Memphis and Chattanooga look after the South, and another branch house at Minneapolis, with the parent house here, supply the North. Just now they are filling large orders for Alaska. Their foreign trade is regular and steadily increasing. Over five hundred men are now employed, and the factory is running day and night to keep up with the orders."

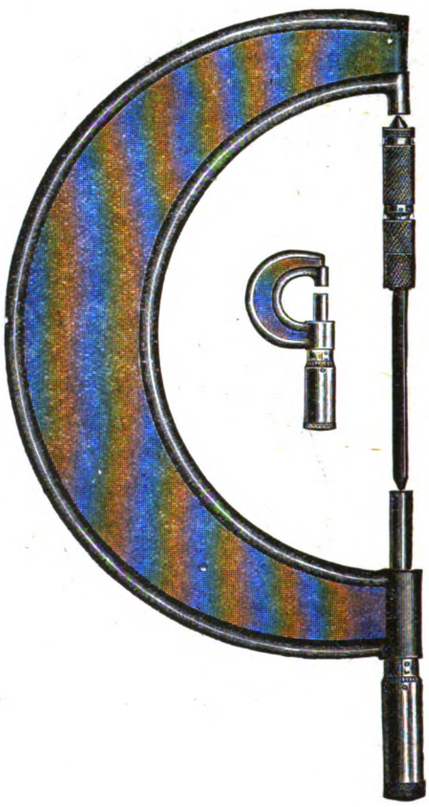
Products of J. T. Slocomb & Co.

J. T. Slocomb & Co., Providence, R. I., are a co-partnership between John T. Slocomb and Charles E. Barlow, and started in business in 1890 for the manufacture of machinists' small tools. The first tool which they placed upon the market was their combined drill and countersink, which is



used for centering lathe work. This tool was not a new feature at that time, having been thoroughly tested in everyday shop work for several previous years, but at that time it had not been placed upon the market, and there was no special machinery in existence for its economical manufacture. This firm undertook the regular manufacture, and placed it upon the market at a price that enabled it to compete with other tools of the same characeter. These tools are made double-ended, a drill and countersink on each end. To get the best results, they should be speeded high and fed slowly. In the firm's own shop practice, they have drilled and countersunk 1200 centers in annealed tool steel, with one end of one drill, leaving the tool in good condition for as many more. This was done with an E drill (13-64 countersink, 1-16 drill), running one thousand per minute. The special advantage of this tool for this purpose is said to be cheapness in first cost, a saving of time, and a certainty of having all the centers drilled deeply enough, and an improvement in work generally.

J. T. Slocomb & Co. afterward undertook the manufacture of micrometer calipers and micrometer depth and height gauges. At present they make seven sizes of outside micrometer calipers, running from 0 to 6 inches in diameter, by thousandths. The largest and smallest sizes of these are shown in the illustration presented herewith, and also an inside micrometer is shown between the meas-



uring surfaces of the large micrometer. The smaller illustration shows the combined Drill and countersink.

These micrometer calipers were, the manufacturers say, "designed to meet the requirements of everyday machine shop work, by men who had experience in the use of such tools in this line of work."

The frames or bows are bent I beams, giving great rigidity for the weight, and affording a convenient finger hold. There are improved adjustments for wear, and a small coil spring is introduced in such a way as to give the slight continuous friction to the measuring spindle, which is described as a valuable feature, "as the screw cannot get loose enough to move of its own accord." They are sold in sets, put up in neat and substantial cases, or singly, as the customer desires.

The advertising department of the Bissell Carpet Sweeper Co. are just announcing to their customers their willingness to prepare for them specially designed show card matter gotten up very uniquely for such of their dealers as may patronize street car advertising. This plan was originally suggested really by one of their largest customers in the East. For further particulars write to the Grand Rapids or the New York offices of the Bissell Carpet Sweeper Co.

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THE HARDWARE DINNER OF 1898.

Another milestone has been passed in the history of the Hardware Club, and of the Hardware trade, of New York.

This important event occurred on the evening of Monday, February 21st, at the Hotel Waldorf-Astoria, in New York city. It had been heralded for some time in advance, as the great Hardware dinner of 1898, and all who were there, or those who have heard by report of that which was said and done upon that evening of festivity, united in the agreement that there was never a more enjoyable or successful dinner given in the series of dinners which have marked the annual gatherings of the trade. Friends from all parts of the country were present, St. Louis greeting Chicago, Boston and the South, while the great Middle States were represented by well-known manufacturers and merchants.

The magnificent main dining hall of this great hostelry, with the surrounding suites of reception rooms and parlors, were devoted exclusively to the use of the club, and there never was seen anywhere within the Hardware trade



GEORGE J. LAIGHTON.

of this country a more beautiful and artistic assemblage than that which was observed from the upper tier of boxes when the guests had taken their seats, which effect was heightened and increased when the boxes in the two galleries surrounding the dining hall were filled with the lovely and accomplished ladies who were kind enough to lend their presence for the evening.

All the preliminary arrangements had been made with that completeness which characterizes the dinner work of Alfred D. Clinch, chairman, and his associates of the Dinner Committee, and when the guests began to arrive shortly after six o'clock they found a courteous and genial welcome at the hands of the Reception Committee, of which George J. Laighton was chairman, seconded by the efforts of the president, officers and governors of the Hardware Club of New York.

An hour and a half were spent in greetings and social converse, and at 7:20 P. M. a procession was formed, with the president in lead, for the dining room, each guest being escorted in person by a member of the Reception Committee. When the guests entered the great and magnificent dining hall, the fame of which is known throughout the world wherever hotels are mentioned, a scene of wonderful beauty burst upon their vision. Across the farther end of the dining hall, on a raised dais, was the guests' table, while all through the room, ranged at convenient intervals, were round tables at which the diners were grouped. There was a profusion of flowers everywhere, while the main table was festooned along the entire length with smilax; and as the bright lights from the ceiling shed their lustre upon the scene below, the effect was one of great artistic beauty, of color and of motion; while the presence of the ladies in the boxes above served as a fitting crown and complement to the whole occasion.

As the gentlemen stood in their places, President Peter McCartee rapped for silence, and grace was said by the Rev. Boardman B. Bosworth. The following attractive and choice menu was then discussed:

MENU.

Huitres Aperitives.

Potage. Croute au Pot, Menag re.

Poisson. Alose sur Planche.

Pommes, Parisienne. Salade de Concombres.

Entree. Ris-de-Veau en Coquilles, Gourmet.

Piece de Resistance.

Filet de Boeuf Pique a l'Espagnole. Choux-Fleurs au Gratin.

Sorbet Metallique.

Gibier. Pigeonneau roti en Casserole.

Salade Chiffonade. Fromages, Camembert et Roquefort.

Entremets de Douceur. Glaces Fantaiise.

Petits Fours. Cafe. Fruits.

The programme for the literary portion of the evening was as follows:

GRACE, - - - Rev. Boardman B. Bosworth.
Who giveth us richly all things to enjoy.—Saint Paul.

TOASTS.

GREETING, - - - - - Mr. Peter McCartee.
President of the Hardware Club.
Magnificent spectacle of human happiness.—Sidney Smith.

THE DOMESTIC POLICY OF THE UNITED STATES, - - - - Hon. John M. Thurston.
In proportion as the structure of a government gives force to public opinion, it is essential that public opinion should be enlightened. Washington.

LEADERSHIP IN DEMOCRACY, - Rev. W. H. P. Faunce, D.D.
Let this great example stand,
Colossal seen of every land,
And keep the soldier firm, the statesman pure,
'Till in all lands and through all human story
The path of duty be the way to glory.—Tennyson.

OLD SAWS RESET, - - - - Hon. R. W. Tayler.
Our dates are brief, and therefore we admire
What thou dost foist upon us that is old:
And rather make them born to our desire
Than think that we before have heard them told.—Shakespeare

At exactly 9:30 P. M., President McCartee arose and called the assemblage to order. The hold which the president has upon the hearts of the trade was shown in the tremendous applause which greeted him upon rising, followed by three memorable cheers for that "friend of everybody, Peter McCartee." When silence was partially restored Mr. McCartee covered his confusion as best he could, and welcomed the members of the club and their guests in the following eloquent manner:

SPEECH OF PRESIDENT M'CARTEE.

It again becomes my pleasant duty to say a few words of greeting, and to welcome you to our annual festival and to this regal hall, in all its magnificence and beauty. Most fitting it is that we should meet as we do to-night, for thus, as we "chide the lagging hours" with festive song and speech, we mark the mile-stones along life's highway, and garland them with roses.

How is it that on such occasions our thoughts go backward and not forward, to the past rather than to the

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future? Why do we strive to see the pathway we have travelled, too often strewn with shattered Argosies and the wrecks of disappointed hopes? True, it is the fashion of the day to admire the old; we talk of Colonial dames, Colonial houses and Colonial furniture, and the maiden sighs for hoops and farthingales, patches and powder, while the young man of to-day in his knickerbockers, bids fair to lead us back to the ruffled shirts, silk stockings and pumps of our revered ancestors. But a voice speaks to us across thirty centuries, "Say not thou, what is the cause that the former days were better than these, for thou dost not inquire wisely concerning this?"

In an ancient city once stood a statue with two faces, and my imagination has pictured the backward looking countenance as scarred and torn with the conflict of the past, its expression that of disappointment, defeat and despair. But



PRESIDENT PETER McCARTEE.

the forward-looking face is bright with a smile of hope, and the eyes flash with eager expectation.

So I say to the young men here, to-night, look to the future, and not the past—you, in whose hearts is that thirst for achievement which is the prerogative of youth—you, who dare all, and fear nothing—it is to you the nation looks for the accomplishment of its destiny. Some of us stand in the afternoon shadows with our faces towards the sunset, let yours be bright with the promise of the coming day.

See to it: see to it that in the future truth and honor and justice shall prevail in the land. See to it that the government of our city, our State and our nation be administered in righteousness. Let your watchword be, "God and our Country," and when you have graven this deeply in your hearts, then all the sordid and petty things of time shall be swept away in the passion of patriotism that shall fill your souls, and then, and then only, will you have vindicated your right to be called citizens of this great Republic.

Mr. McCartee was loudly cheered at the conclusion of his speech. He then arose, and with a few well-chosen words explained that, because of very important public business which had arisen in the Senate of the United States, the Hon. John M. Thurston, Senator from Nebraska, who had accepted an invitation to speak, was unable to be present. He expressed the regret of himself and the club in a happy manner, and then introduced the Rev. William H. P. Faunce, D.D., pastor of the Fifth Avenue Baptist Church, New York, in the following felicitous manner:

Dear Friends: It is somewhat embarrassing for the presiding officer on such an occasion as this to introduce a friend, for if I should say of him all that is in my heart to say, you who do not know him so well as I would think it excessive eulogy; and if I should say less, I should do him but scant justice. So my only recourse is to introduce the gentleman, confident that when he shall have finished his address to you he will have won his way to the depths of your heart as he has to mine, and gain your lasting honor and esteem.

DR. FAUNCE'S SPEECH

in response to the toast of "Leadership in Democracy," was an eloquent and thoughtful presentation of the fact that wise statesmanship is required at all times in the care of a country's interests, and at no time was the subject of more pressing importance than at present. He made it evident to all that it was the duty of each man, and especially of each earnest business man, to take a part in public affairs, and to show that they appreciate the privileges of citizenship by making the most of the opportunities which that citizenship offered. He spoke in the highest terms of the efforts made by the government to meet the present tremendous crisis in foreign affairs, and countenanced moderation of action and suspension of opinion until the facts in regard to the terrible catastrophe in the waters of Havana should be thoroughly established, but was of the belief that patriotic measures should be taken to preserve the honor and defend the rights of the country. He was loudly cheered. Dr. Faunce paid a few happy compliments to the ladies who overlooked the scene from their point of vantage in the gallery, and on the conclusion of his remarks the applause showed that all were gratified at his presence, and endorsed the sentiments which he had uttered.

When Dr. Faunce was seated President McCartee arose and paid a brief tribute to the memory of the dead of the Maine. He then asked the gentlemen to rise and drink in silence a toast to their memory.

President McCartee then introduced the Hon. R. W. Tayler, member of Congress from President McKinley's home district in Ohio, in the following words:

What a stirring State is that State of Ohio! It was only a year ago, in 1896, when they kept the whole country stirred up on a presidential election, and two months ago they stirred us all up again on a Senatorial election, and now here comes Congressman Tayler from that stirring State, and proposes, with his learning and eloquence, to stir us all up tonight, in the usual Ohio fashion. Gentlemen, Hon. R. W. Tayler.

Mr. Tayler's theme was "Old Saws Reset," and he spoke as follows:

ADDRESS OF HON. ROBERT W. TAYLER.

The kind, the too kind words of your chairman rather embarrass me, and this is known to be a remarkable result to produce on an Ohio man. Really, I must wait a moment until I recover. Recently, at Washington, a visiting statesman from New York or South Dakota, I don't remember which, happened to be invited to a dinner of some social consequence, at which a number of persons of considerable importance were present. In recounting his experience to a friend the next day, he said: "I never saw so many prominent people before in my life, and was

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scared half to death; and by thunder when the British Ambassador spoke to me I was so embarrassed I could hardly get my knife in my mouth!"

Really, you give me hope and courage.

Some one has said that the Puritan's idea of hell was a place where people have to mind their own business. Having some of the instincts of a Puritan myself, I may as well admit that here, to-night, I am in heaven. I have the opportunity of minding other people's business to my heart's content. Besides that, I am given the opportunity to exhibit myself in the usual attitude of a so-called statesman of talking about the things of which he knows the least. You are a hospitable crowd, and you make me feel at home.

The chief beauty about all this is, that, while you are resting your brains in the process of listening, I am resting mine while I talk. After the last speech we need rest, and, perhaps, spirits. And speaking of Dr. Faunce, to whom I have always listened with delight, I am reminded of one of his most ardent admirers, who said that Dr. Faunce was always enchanting and inspiring, but he never listened to his concluding words without a transport of delight. I have assumed that this meant an intellectual relish of an



REV. WILLIAM H. P. FAUNCE, D.D.

eloquent peroration, and not a mere rejoicing over the fact that the speaker was about to quit.

Since some reference has been made to Ohio I can, without impropriety, add that I come from the heart of the iron producing district of the country, midway between Pittsburg and Cleveland. We produce the raw material which you consume in making the infinite variety of your productions.

I am honored, too, in representing the district so long and so honorably represented by William McKinley, than whom no man is inspired with a profounder love of country. He is the embodiment of patriotism; he stands now, as always, on the declaration "America for Americans!" We may be sure that the country's honor is safe in his hands, and that he will no more permit the waging of a dishonorable war than he will suffer a dishonorable peace. He is most striking to-day in that he has the courage of patience in the midst of alarms.

"Old Saws Reset." This is not a subject of my choosing. It was fixed up by a friend of many years standing; and in all that time he never exhibited so valued a friendship as in this selection. You will notice that it is picturesque and effective, but it is as comprehensive as knowledge and as handy as a pocket in a shirt. It gave me a chance to go to my scrap bag without apology and with the clearest conscience. I have spent more time in trying to think of something not covered by the subject than in reflecting on what I ought to say. I have as yet discovered nothing, and I now offer a reward for any robust idea that is not strictly related in the first degree to the subject. Take any old truth you please and dress it up in new clothes and behold the relevant result.

But my friend of whom I spoke would probably reply that I was not sufficiently acquainted with truth, whether old or new, to be permitted to dress it over: that there would be a shameful incongruity between the truth and the clothes. Well, that may be so.

I seek refuge in the thought, if I am permitted to think, that the subject also permits me to tell any old lies in a new way; and in this my friend would doubtless class me as strictly a first class risk. Think of the chestnuts, hoary headed and venerable, which I might reset; but that I leave for my friend and the other speakers.

But I have an idea or two, or what I imagine to be an idea, and in that unwonted condition I must suffer until their burden is lifted from my intellect—Intellect with a large I, please.

I am an optimist by temperament and have the largest hope for the future of Society; yet there are perils and pitfalls which only the blind cannot see. Our mode of escape is through the awakened thoughtfulness of the American people, especially of the American business men; especially of such men as you, who, I assume, are not politicians, or if interested in politics are concerned chiefly about the government of Greater New York or the stability of currency conditions.

But, after all, these are only surface conditions; broadly speaking, they are only incidents.

Whether Tammany or some other kind of reform controls New York; whether we have a war with Spain or not; whether free silver triumphs in 1900 or something else—these do not, except incidentally, strain the roots of our social growth or seriously impair the fabric of our civilization. There may be a rent here and there, but the general integrity of the fabric remains.

Liberty, patriotism, these are subjective conditions. They are sentimental rather than concrete. It rarely sustains any physical relation to the person who harbors it. A citizen of the German Empire may, perhaps, pass from the cradle to the grave and feel no more physical interference with his liberty than if he were a citizen of the United States. A subject of the Czar of All the Russias may live his life and perhaps suffer less restriction upon his personal freedom than if he were a citizen of the French Republic.

Physical surroundings have much to do, of course, with the mental and moral attitude of men; but after all, it is this attitude of mankind, this sentimental condition, which determines the physical surroundings, and at the last determines the form and proportions of the social structure.

What is going on in the American mind? and what are the subjective necessities of the hour?

We hear much talk of social unrest; we hear much of the suffering of men and women; of the grinding of the poor; of low wages, and these are deemed a menace; so they are and ever were. But there was always suffering of men and women; there was always grinding of the poor, but there is less now than ever before; the purchasing power of a day's labor was never as large as during the past decade. These complaints we have always with us, and they serve their part, their useful part, in ameliorating the conditions under which men live.

But they have no more to do with social revolutions than they have always had.

Something else has been going on in the public mind and other results are threatened. How far away they may be, or whether they will ever arrive, no man can tell.

There is in the air a distinct drift toward Socialism. I do not care how scientifically you define Socialism if you note my use of the word "drift."

And this drift while it may be accentuated by, is yet

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practically independent of, the immediate physical conditions and surroundings of the body of the people.

Let us inquire into this a moment and see if the causes for such a sentiment really exist and how far-reaching they seem to be.

It is not my intention to discuss partisan politics though what I say has a necessary relation to it.

The forces which operated in the Campaign of 1896 effected, as I view the subject, a distinct decadence in the moral sense of a large body of the American people. The proposition to enter upon the free coinage of silver at the ratio of 16 to 1 had many plausible and honest supporters. It was contended for with strong arguments and by many on purely philosophical grounds. The fact that I could not be convinced of the soundness of the argument is apart from this inquiry. Indeed, that is so irrelevant at this moment, that I might admit that I am wrong and the advocate of free silver is right.

The important thing is this, that in the midst of that discussion and as a logical result of it, there was reared the hated head of repudiation and with it of commercial dishonesty; men were taught with more and more boldness as the campaign progressed, that they had been wronged, bitterly and premeditatedly wronged. That



HON. ROBERT W. TAYLER.

there had been, and were then, sinister forces at work, having the purpose of chaining the multitude to the service of the few; that the accumulation of money was not due to the natural evolution of business and commerce but to the wicked designs of the powerful. Thus it came to pass that men concluded, first, that there was no wrong in scaling their debts and in repudiating the obligations of contracts and, second, that the fabric of society had been unequally woven to their permanent disadvantage. Thus was the stifled conscience kept quiescent. If the cause of free silver was a righteous one, it is not the first time in history that a righteous cause has been made to serve an unholy purpose or bring about an unrighteous end.

The immediate result of all this, aided of course by antecedent facts, was to focus the public attention upon the means adopted to acquired money, and to view these methods with inflamed imagination. Every exercise of power by the Federal Government and by the Courts was looked upon as a new expression of the power of money and especially of the money concentrated in corporations and trusts. Men with grievances magnified their grievances; men without causes of complaint speedily conjured them up; and everywhere the agitator and the demagogue were in evidence.

When this aroused, but distorted intelligence looked about, what did it see?

It found Wall street gambling in stocks and betting fabulous sums on the rise and fall of securities. It found Wall street fixing the value of conservative properties according to the whim or necessity of a gambler. They had always known that it was so, but the mental and moral condition which accompanies knowledge is the factor which gives it character. And all this business took on a new and unholy light. The shearing of lambs became an incident of slight consequence in view of the sinister aspect of the business as a whole.

Turning their eyes elsewhere, what did they observe? They saw with a new light and from a different standpoint the stupendous aggregation of capital controlling almost every line of business possible of consolidation, and raising or lowering prices, and stifling competition at will. The result produced of cheaper cost to the consumer by improved methods and economy of management left little impression before the, to them, appalling power of the aggregation. The trust had formerly been the weapon of one party to strike at the doctrine of protection which was supposed to encourage them.

But the new light disclosed that, tariff or no tariff, the trust was here and that it sustained no necessary relation to the economic principle involved in free trade or protection. It was now looked upon as a concentration of power arising out of our social and general economic conditions and as such were a menace to the liberty and happiness of mankind.

It is easy under these circumstances to magnify dangers; and the result is a grievous inflammation, accelerated by the constant and insistent spectacle of the trust.

So much for the subjective condition of the man. What else do we see? Speaking for myself, I see this: that the forces that make for Socialism are not the Mosts, the Debs and the Populists, but the Rockefellers, the Havemeyers and the Pierpont Morgans. When the oil interests are in the hands of one small unified group; the sugar interests in another; the railroads in another; and so on, it will take but one step more to consolidate all of them into the hands of a small unified group. It will then become a concrete fact which the narrowest view can comprehend; the group will be the masters, benevolent and kind perhaps, but still masters, and the rest of the people will be slaves or subjects. Will they be willing subjects? If they are supplied with the necessities and comforts of life at lower prices than ever, will they be willing subjects? If their physical surroundings are more comfortable than ever, will they still be willing subjects? Far from it. They will be on the very eve of Socialism. No, rather will they be in the midst of it. For, if the control of every moneyed enterprise is in the hands of a single group, it will present not only a fascinating object of attack, but an exceedingly simple one. Turn out the owners, or better and easier still, simply compel the owners to abandon the policy of administering their business for their own benefit, and administer it for the benefit of all the people, and there is your Socialistic Society born in an instant.

I have described conditions. My personal views are of little consequence. In the awakened intelligence of such as you I see the promise of a continuance of the present social order, developing along the lines of a proper evolution.

This is a time, not for apathy, but for effective thinking and from such as you who represent neither extreme we look for that conservatism which contains the largest promise of good.

Frank Wyman, of the Simmons Hardware Co., St. Louis, Mo., was then called upon, and responded with a recitation, humorous in its character, and received with marks of favor.

During the evening a number of patriotic songs were rendered in an attractive manner by a vocal quartette,

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consisting of the following gentlemen: Cornelius J. Bushnell, John Young, William Young and Edward S. Roe.

At the conclusion of the banquet, Mr. McCartee dismissed the company with these words:

"Gentlemen, accept my congratulations on the success of our entertainment to-night. May many, many years of useful, honorable life be given to each one of you, and may we treasure the memories of this and past occasions with unfailing pleasure and delight."

While there was some disappointment, of course, at the absence of Senator Thurston, the speeches which were delivered were patriotic and to the point, and all who were present felt that the evening was one of rare enjoyment.

The presence of the ladies in the gallery, which was a new feature of the Hardware dinners, was one that commended itself to everybody, and there is little doubt that it will be a permanent part of the annual proceedings hereafter. The ladies were interested in the speech-making, and showed this appreciation by taking part in the applause which greeted the orators from time to time. Very



CHAIRMAN ALFRED D. CLINCH.

many of the gentlemen present made it a point to pay their respects to the ladies during the evening, and supper was served to the latter in their boxes while the gentlemen were dining below.

THE DINNER COMMITTEE

who had charge of the arrangements for the evening, were as follows:

DINNER COMMITTEE.

Alfred D. Clinch, *Chairman.*

Eugene Bissell,	Edward C. Van Glahn,
James H. Kennedy,	J. Leonard Varick,
George H. Sargent,	Richard R. Williams.

It is needless to say that the main portion of the work of preparation fell upon the shoulders of Chairman Alfred D. Clinch, who has been the head and front in like work of all the Hardware dinners that have yet been given. His rare executive ability, his knowledge of the proper things that should be done, and his industry in seeing that they are done, were shown in the results of the evening, and Mr. Clinch was congratulated by very many upon the success which had attended his efforts. It may be permitted here to say that the officers and reception committee appreciate to the fullest extent the artistic work of Mrs. Alfred D. Clinch, who made a labor of love of the preparation of the badges worn by the various officials and committees.

THE SOUVENIR PROGRAMMES.

At each plate was a handsome souvenir programme, printed in colors upon heavy boards, in a most artistic manner. It contained the menu, the order of toasts, list of guests, location of tables, portraits of officers and pictures of the interior of the Hardware Club, interspersed with appropriate quotations, and admirable from every point of view. It was prepared and presented with the compliments of the *Iron Age*. The outside cover of the programme is shown on the following page.

RECEPTION COMMITTEE.

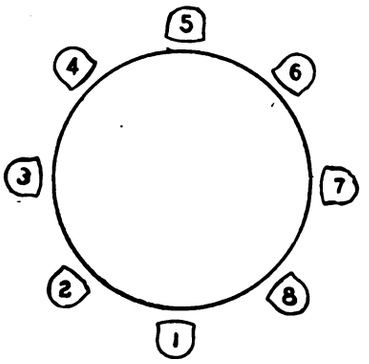
George J. Laighton, *Chairman.*

Frank P. Abbot,	James D. Foot,
Thomas J. Atkins,	George A. Graham,
William H. Baker,	George E. Harding,
Charles J. Billson,	George P. Hart,
George W. English,	Richard P. Rothwell,

Henry L. Shippy.

A LIST OF THOSE PRESENT.

We give herewith a list of those present, with the number of the tables at which they were seated. The guests' table, which is also shown, occupied one end of the dining hall, while the other tables were grouped about the room.



The illustration shown herewith gives a general idea of the manner in which the guests were seated at the various tables.

TABLE 1.

1. Alfred D. Clinch, Underhill, Clinch & Co.
2. Samuel M. Nicholson, Nicholson File Co.
3. Henry L. Coe.
4. Asa D. Bigelow.
5. William W. Glover, Underhill, Clinch & Co.
6. William P. Uhler, F. A. Ferris & Co.
7. Charles J. Stebbins.
8. Frank H. Thompson, Stanley Rule & Level Co.

TABLE 2.

1. Thaddeus Smith, Union Nut & Bolt Co.
2. Charles C. Lewis. Chas. C. Lewis Co.
3. Lester L. Ensworth, L. L. Ensworth & Son.
4. George T. Montgomery, Montgomery & Co.
5. Irving S. Ventres, Union Nut & Bolt Co.
6. Joseph Hardie, N Y. Metallic Bedstead Co
7. Louis F. Tissot, Union Nut & Bolt Co.
8. John B. Clapp, John B. Clapp & Son.
9. Louis M. Way. Way Hardware Co.

TABLE 3.

1. J. Leonard Varick, Union Nut & Bolt Co.
2. Emanuel B. Sheffer, Erie Railroad Co.
3. James C. Peabody, Swan & Finch Co.
4. Samuel J. Johnson, Union Nut & Bolt Co.
5. J Albert Van Winkle, J. A. Van Winkle Co.
6. S. Otis Livingstone, Livingstone Nail Co.
7. Edward P. Coughton, Millers Falls Co.
8. George E. Rogers, Millers Falls Co.
9. Edward White; Erie Railroad Co.

TABLE 4.

1. Jas D. Foot, Kearney & Foot Co.
2. James H. Ritter, Biddle Hardware Co.
3. Thos. F. Burgess, Dean Linseed Oil Co.
4. Jno. B Varick, J. B. Varick Hardware Co.
5. Sandford D. Foot, Kearney & Foot Co.
6. Cleveland Foot.
7. C. Clinton Smith, J. L. Mott Iron Works.
8. Wm. D. Supplee, Supplee Hardware Co.

TABLE 5.

1. William M. Taussig, Wiebusch & Hilger, Ltd.
2. Charles F. Wiebusch, Wiebusch & Hilger, Ltd.
3. F. K. Priest, American Shearer Mfg. Co.
4. W Dormitzer, A. D. Straus & Co.
5. Clemens Kloefkorn, Challenge Razor Works.
6. W. S. Brewster, Denny, Poor & Co.
7. H. S. Dormitzer, Wiebusch & Hilger, Ltd.
8. Henry T. Seymour, Woods Specialty Co.

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John S. King. Brace Hayden. John Bindley. Richard R. Williams. Rev. Boardman B. Bosworth. Robert H. Swayze. Wilbur F. Wakeman. George J. Laighton. George H. Sargent. Hon. John M. Thurston. Peter McCartee. Rev. William H. P. Faunce, D.D. James H. Kennedy. Hon. Robert W. Tayler. Webster R. Wallley. Elisha J. Neale. Thomas F. Keating. Cornelius J. Bushnell. John Young. William Young. Edward S. Rice.

GUESTS' TABLE.

TABLE 6.

1. J. C. McCarty, J. C. McCarty & Co.
2. Stewart H Chisholm, H P. Nail Co.
3. Philip S. Dyer, American Horse Shoe Co.
4. Harry L. Raub, Reil'y Bros. & Raub.
5. Benj. S. Alder. J. C. McCarty & Co.
6. Ed. T. Fraim, Keystone Lock Works.
7. Loring Coes, Coes Wrench Co.
8. Geo. W. Rouss, Chas. B. Rouss.
9. Geo. B. McCarty, J. C. McCarty & Co.
10. W. T. Johnson, Chas. B. Rouss.
11. John C. Coes, Coes Wrench Co.
12. Chas. H. Holton, American Horse Shoe Co.

TABLE 7.

1. John Sargent, Sargent & Co.
2. William A. Rice, Sargent & Co.
3. Louis Sargent, Sargent & Co.
4. George F. Wiepert, Sargent & Co.
5. Thomas J. Atkins, Sargent & Co.
6. George Munson, Sargent & Co.
7. Edgar Underhill, Underhill, Clinch & Co.
8. Frederick E. Underhill, Underhill, Clinch & Co.

TABLE 8.

1. Edward C. Van Glahn, White, Van Glahn & Co.
2. William H. Bolton, The Bronx Co.
3. George B. McEntyre, P. B McEntyre & Son.
4. Herbert E. Smith, White, Van Glahn & Co.
5. Frank Brabson, Brabson Bros.
6. George W. Millard,
7. Bernard H. Eidel, White, Van Glahn & Co.
8. Richard L. Walsh.

TABLE 9.

1. Arthur G. Sherman,
2. Frank Baackes, Salem Wire Nail Co.
3. George H. Ismon, Salem Wire Nail Co.
4. W. A. Foster, Falcon Nail & Iron Co.
5. Charles H. Turner, Albany Hardware & Iron Co.
6. W. B. Wackenhagen, Albany Hardwars & Iron Co.
7. William J. Henley, Maltby Henley Co.
8. Edmund A. Parker, Meriden Silver Plate Co.

TABLE 10.

1. Charles S. Landers, Landers, Frary & Clark.
2. George M. Landers, Landers, Frary & Clark.
3. Landers, Frary & Clark.
4. B. M. Babcock, Babcock Hardware Co.
5. Charles W. Gause, Hardware Buyers' Association
6. Henry G Atha, The Atha Tool Co.
7. James E. Smith, Simmons Hardware Co.
8. Frank Wyman, Simmons Hardware Co.

TABLE 11.

1. Merrill Watson, Centra Expanded Metal Co.
2. William B. Paulscraft, Hardware Buyers' Association.
3. Robert C. Hopkins, Dunham, Carrigan & Hayden Co.
4. O. S. Ticer. Dunham, Carrigan & Hayden Co.
5. C. W. Hubbard, Jr., American Axe & Tool Co.
6. E. De Forest Shelton, Shelton Co.
7. William C. Biddle. Biddle Purchasing Co.
8. James H. Goldey, Hardware Board of Trade.

TABLE 12.

1. Robert Vom Cleff, Vom Cleff & Co
2. Arthur H. Kennedy, Vom Cleff & Co.
3. C. W. A. Hammacher, Hammacher, Delius & Co.
4. Hermann Bielefeldt, Hammacher, Delius & Co.
5. William F. Schlemmer. Hammacher, Schlemmer & Co.
6. Gustave Vintschger, Markt & Co.
7. Ferdinand Baumgard, Markt & Co.
8. E. Bertram Pike. Pike Mfg. Co.
9. Gustav Otto, Bawo & Dotter.
10. Julius Robertson.

TABLE 13.

1. Ernest F. Eilert, The Iron Age.
2. David L. Williams, The Iron Age.
3. H. C. Mabie, The Iron Age.
4. Edward H. Darville, The Iron Age.
5. A. J. Barnett, The Iron Age.
6. Charles C. Taintor, The Iron Age.
7. Fred. G. Platt, New Britain Machine Co.
8. Henry S. Walter, Stanley Rule & Level Co.

TABLE 14.

1. George W. English, Berkshire Life Insurance Co.
2. Harry D. W. English.
3. Charles Daly, Schoverling, Daly & Gales.
4. Charles H. Daly, Schoverling, Daly & Gales.
5. William Stake, Schoverling, Daly & Gales.
6. Robert W. Mulready. Schoverling, Daly & Gales.
7. Joseph Gales, Schoverling, Daly & Gales.
8. Ira E. Douglass, Shelton Co.

TABLE 15.

1. Fred. L. Stellwagen, Reading Hardware Co.
2. Frederick C. Thomas.
3. H. B. Baker, Reading Hardware Co.
4. John E. Harbster, Reading Hardware Co.
5. James R. Kenney, Reading Hardware Co.
6. W. D. Holmes, Reading Hardware Co.
7. Bruce Price,
8. Francis B. Griffin, C. E. Jennings & Co.

TABLE 16.

1. Mortimer C. Ogden, Eagle Lock Co.
2. Horace L. Balch.
3. Henry B. Plumb, Eagle Lock Co.
4. Charles C. Philbrick.
5. Christian T. Stork, Van Wagoner & Williams Co.
6. C. S. Van Wagoner, Van Wagoner & Williams Co.
7. John J. Teeple, Van Wagoner & Williams Co.
8. Clarence I. Markham, Cleveland Twist Drill Co.

TABLE 17.

1. A. J. Warner, Warner Lock Co.
2. S. A. Bigelow, Bigelow & Dowse Co.
3. F. D. Berthet, Warner Lock Co.
4. Daniel T. Mallett, Hardware Dealers Magazine.
5. Samuel S. Mallett, Hardware Dealers Magazine.
6. Charles S. Jopp, Winsted Edge Tool Works.
7. Henry B. Newhall.
8. B. Frank Hooper, Colwell Lead Co.

TABLE 18.

1. Walter L. C. Glenney, G. I. Mix & Co.
2. Charles Madaira,
3. C. Arthur Baynon, Woolley & Baynon Co.
4. C. M. Beach.
5. A. B. Beers.
6. William R. McCullough, Turner, Day & Woolworth Mfg Co.
7. William Dealing, R. W. Cameron & Co.
8. Richard P. Rothwell, Engineering and Mining Journal.

TABLE 19.

1. Henry Hopkins, Hardware Publishing Co.
2. Howard Hampton, Hardware Publishing Co.
3. William L. Hopkins, Hardware Publishing Co.
4. Thomas Towne, Union Drawn Steel Co.
5. W. F. Wagner, Wm Jessop & Sons, Ltd.
6. Chas. S. Mersick, C. S. Mersick & Co.
7. Charles M. Porcher, Pierson & Co.
8. Henry L. Pierson, Pierson & Co.

TABLE 20.

1. William H. Cole, Iver Johnson's Arms & Cycle Wks.
2. Fred. I Johnson, Iver Johnson's Arms & Cycle Wks.
3. William H. Mills, Iver Johnson's Arms & Cycle Wks.
4. John J. Tower, Tower & Lyon.
5. Warren M. Tower. Tower & Lyon.
6. Frank P. Abbott, Gerard, Dufraisseux & Abbot.
7. Francis W. Drake, J. H. Drake's Sons.
8. Robert S. Ferguson. J. H. Drake's Sons.

TABLE 21.

1. Robert K. Carter, R. K. Carter & Co.
2. E. P. Sanderson, E. P. Sanderson Co.
3. L S. Cook, Standard Horse Shoe Co.
4. Frank K. Blauvelt, R. K. Carter & Co.
5. D. P. Patenande, A. M. Holter Hardware Co.
6. F. William Hallock, F. Hallock & Co.
7. Samuel Disston, Henry Disston & Sons.
8. Henry Disston & Sons.

TABLE 22.

1. George F. Taylor, Corbin Cabinet Lock Co.
2. Corbin Cabinet Lock Co.
3. Frank L O'Neil, P. & F. Corbin.
4. L. E. Landon, Landon & Co.
5. William R. Hill, The Mallory Wheeler Co.
6. Robert N Brundage, Patterson Bros.
7. Angus F. Brombacher, A. F Brombacher & Co.
8. William H Hanna, A. F. Brombacher & Co

TABLE 23.

1. George E. Harding, George E. Harding & Gooch.
2. W. Tyson Gooch, George E Harding & Gooch.
3. James W. Boyle.
4. Warren A. Conover, W. A & F. E. Conover.
5. Frank E. Conover, W. A. & F. E. Conover.
6. Arthur McMullen, A. McMullen & Co.
7. George M. Kneuper.
8. James S. Coleman.
9. James S. Coleman.
10. Ronald Taylor.

TABLE 24.

1. Eugene Bissell, E. Bissell, Son & Co.
2. Terence F. Curley, J. Curley & Bro.
3. Homer A. Curtis, Meriden Cutlery Co.
4. George H. Clowes, Randolph & Clowes.
5. Charles J. Healy.
6. Frank Van Name, E. Bissell, Son & Co.
7. Charles Putzel.
8. Raymond D. Van Name.

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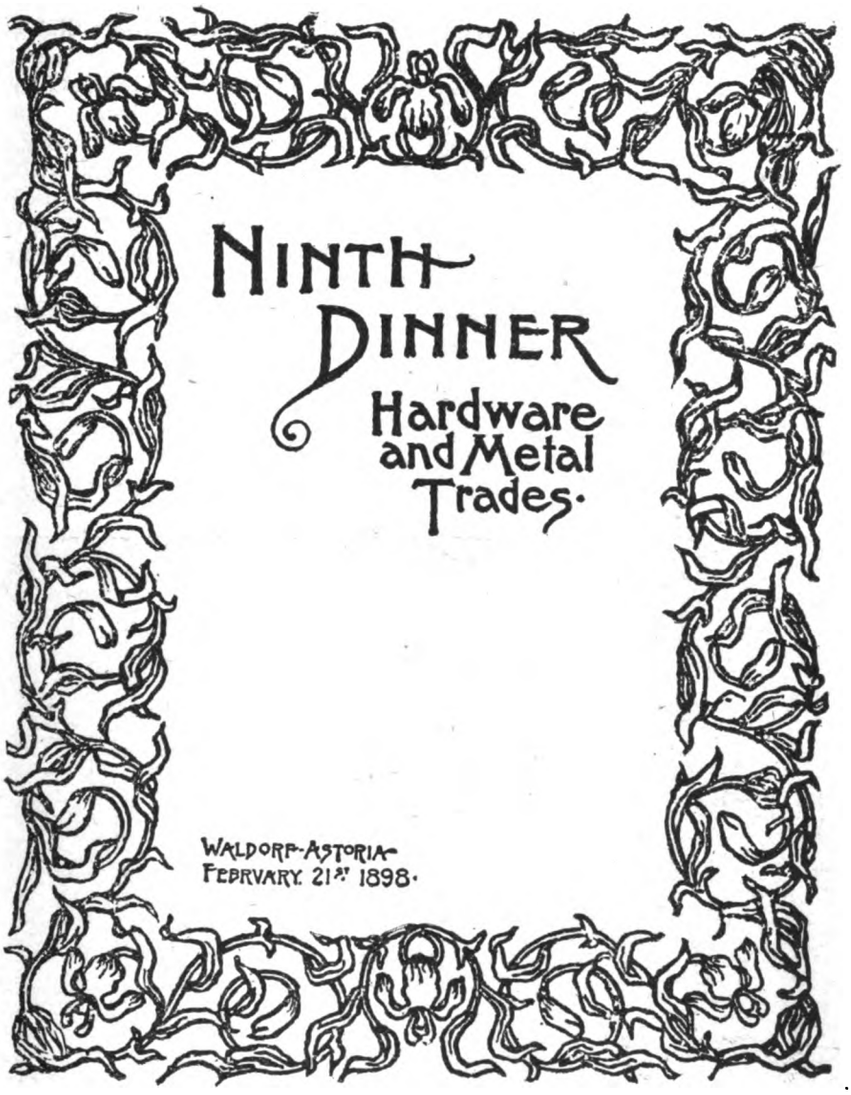


TABLE 25.

1. Henry R. Towne, Yale & Towne Mfg. Co.
2. Olney Arnold, II., American Screw Co.
3. Geo. H. Wightman, Carnegie Steel Co.
4. Henry B. Sargent, Sargent & Co.
5. John H. Towne, Yale & Towne Mfg. Co.
6. George W. Lewis, Phelps, Straw & Co.
7. Winthrop Parker
8. Townsend Scudder.
9. John R. Thomas.

TABLE 26.

1. William G. Smythe, Russell & Erwin Mfg. Co.
2. George B. Germond, Russell & Erwin Mfg. Co.
3. Edward Meyer, Russell & Erwin Mfg. Co.
4. Benjamin A. Hawley, Russell & Erwin Mfg. Co.
5. Louis H. Wales, Russell & Erwin Mfg. Co.
6. Harry W. Harmon, Harmon & Dixon.
7. William D. B. Alexander, National Screw & Tack Co.
8. C. A. Weeks, J. Barton Smith Co.

TABLE 27,

1. Robert Sickels, Sickels & Nutting Co.
2. William A. Wood, William T. Wood & Co.
3. Ernest M. Hulbert, Cortland Door&Window Screen Co.
4. Fred. I Simpson, Sickels & Nutting Co.
5. Samuel E. Winslow, S. Winslow Skate Mfg. Co.
6. William M. Sperry, Sperry & Alexander.
7. Severin R. Droescher.
8. Robert J. Alexander, Sperry & Alexander.

TABLE 28.

1. Andrew W. Milligan, Miller, Sloss & Scott,
2. John J. Halpin. The Smith & Egge Mfg. Co.
3. C. E. Miller, Miller, Sloss & Scott.
4. Oliver C. Smith, The Smith & Egge Mfg. Co.
5. George A. Euell, A. R. Whitney & Co.
6. L. H. Jones, Detroit Brass Co.
7. Samuel Rosenstamm; Lewisohn Bros.

TABLE 29.

1. Charles Loeb, Zucker & Levett & Loeb Co.
2. E. A. Russell, The Housatonic Co.
3. Charles A. Du Vivier, Du Vivier & Co.
4. Charles L. Du Vivier, Du Vivier & Co.
5. Herman Siegel, L. Straus & Sons.
6. Samuel Burns.
7. John P. Hackenberg.
8. Pierre La Coste; W. R. Grace & Co.

TABLE 30.

1. Joseph P. Schiller, Gray Lithograph Co.
2. John E. Dwight, John Dwight & Co.
3. William L. Briggs, Theo. Havilland & Co.
4. Charles Gericot.
5. X. Dietlin.
6. John W. Van Oost, The Art Amateur.
7. Carl O. Peters, C. F. Schmidt & Peters.
8. Conrad L. Peters, C. F. Schmidt & Peters.

TABLE 31.

1. Ferdinand Bonsall, Smith, Lyon & Field.
2. Charles P. Sherwood.
3. Samuel C. Miller, Nicaragua Canal Co.
4. George H. Brown, The Gilbert & Bennett Mfg.Co.
5. Ralph W. Grout, Henry W. Peabody & Co.
6. Hugh H. MacMurray.
7. Mortimer L. Randall.
8. James McMurray.

TABLE 32.

1. William A. Graham, J. H Graham & Co.
2. George A. Graham, J. H. Graham & Co.
3. J. Oliver Graham, J. H. Graham & Co.
4. John L. B. Holme, J. H. Graham & Co.
5. J. C. Smart, J. H Graham & Co.
6. Ralph H. North, North Bros. Mfg. Co.
7. T. H. Newman, Caverhill, Learmont & Co.
8. W. McMaster, Montreal Rolling Mills Co.
9. William S. McKinney, McKinney Mfg. Co.
10. S. E Hosford, Hosford, Pierson & Clark.
11. George A. Rogers, H. A. Rogers.
12. Thomas A. Laing, Miller Sloss & Scott.

TABLE 33.

1. George P. Hart, The Stanley Works.
2. Hobart Weed, Weed & Co
3. James R. Smith, Weed & Co.
4. Samuel McKnight.
5. William E Peck, William E. Peck & Co.
6. Howard S. Hart, Hart & Cooley Mfg. Co.
7. George Nash, Hart & Cooley Mfg. Co.
8. Edward N. Stanley, New Britain National Bank.

TABLE 34.

1. L. Hoyt Pease, The Stanley Works.
2. Andrew J. Sloper. New Britain National Bank.
3. Frank E. Corbin, The Minor & Corbin Box Co.
4. A Chamberlain, The Home National Bank.
5. W. Chamberlain, Emery Waterhouse Co.
6. T. H. Baldwin, Baldwin, Robbins & Co.
7. William H. Hart, The Stanley Works.
8. James D. Green, Supplee Hardware Co.

TABLE 35.

1. Howard Rowland, T. Rowland's Sons.
2. Rush Rowland, T. Rowland's Sons.
3. Frederick G. Barker, Barker, Rogee & Clinton Co.
4. A. Edward Duncan, The Stanley Works.
5. S. S. Lacy, Matthews & Boucher.
6. William F. Fuller, The Stanley Works.
7. Richard W. Shapleigh, Shapleigh Hardware Co.
8. Courtlandt C. Clarke, Allerton, Clarke Co.

TABLE 36.

1. Frank W. Coolbaugh.
2. Kenneth M. Coolbaugh.
3. William F. Potter.
4. Chas. H. Boaz.
5. James R. Zearfoss.
6. William Knobler.
7. William S. Holliday.
8. George W. West.

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Bissell Carpet Sweeper Prizes.

In a recent issue we announced the competition which had been inaugurated by the Bissell Carpet Sweeper Co., Grand Rapids and New York, for the best display of Cyco-bearing Carpet Sweepers made during the holiday season of 1897. We publish in this connection the report of a committee that was appointed to pass upon the various photographs of window displays in response to the announcement. The report of the committee is in full, as follows:

We, the undersigned committee, selected by the Bissell Carpet Sweeper Co., to pass upon the merit of the several photographs submitted in accordance with the cash prize offer of the Bissell Company, for the best display of "Cyco" bearing carpet sweepers made during the holiday season of 1897, do hereby certify that we have carefully examined all the photographs of the several displays, and acting in accordance with the conditions governing this competition, give it as our best judgment that the following are entitled to the prizes in the order named:

1st prize, $40.00, Bryson, Graham & Co , Ottawa, Ont.
2d prize, $30.00, Geo. W. Snaman, Allegheny, Pa.
3d prize, $25 00, L, J. A. Surveyer, Montreal, P. Q,
4th prize, $20.00, The Bush & Bull Co., Williamsport, Pa.
4th prize, $15.00, Kellogg, Drake & Olson, Galesburg, Ill.
6th prize, $10.00, Wm. E. French & Co , Evansville, Ind.
7th prize, $5.00, John Huff, Bremen, Ind.
8th prize, $5.00, W. F. Tietz, Appleton, Wis.

(Signed) DAVID DOWNIE,
Window Draper, Chas. Trankla & Co.
W. L. ADAMS,
Window Draper, Voigt, Herpolsheimer & Co.
J. C. CUTTING,
Window Draper, Spring & Co.

Grand Rapids, Mich, Jan. 19, 1898.

The illustration here shown is a photograph of the display that took first prize.



New York State Hardware Jobbers.

A regular business meeting of the New York State Association of Hardware Jobbers was held in the governors' room of the Hardware Club, New York, Monday, February 21. The meeting was called to order by its president, Charles H. Turner (Albany Hardware & Iron Co.) Its proceedings were entirely confined to matters of a routine character. As the Hardware Club had extended its privileges to the merchants visiting this city, an opportunity was afforded the Association to hold its meeting as above. At the Hardware dinner given on the same evening at the Waldorf-Astoria the faces of nearly all the members of the State Association were recognizable, in the enjoyment of which occasion the members participated with their accustomed spirit. At Elmira, N. Y., and the date March 24, will be held the next regular meeting.

Cycle Manufacturers Meet.

A meeting of the board of directors of the National Board of Trade of Cycle Manufacturers was held at No. 320 Broadway on February 23 for the election of officers and appointment of committees. Walter Wardrop was elected secretary and William A. Redding treasurer. These committees were appointed: Membership—A. L. Garford, J. A. Carter and R. S. Crawford. Charges—C. S. Dikeman, W. A. Redding, and counsel. Legislation—F. J. Stimson, W. T. White and George R. Bidwell. Transportation—Joseph McKee, A. R. Peck, A. L. Moore, C. F. Smith and Kirk Brown. Arbitration—W. A. Redding, R. L. Coleman, R. Phillip Gormully, and counsel.

Thomas Mf'g Co. Bicycle Agency.

The Thomas Mf'g Co., Springfield, Ohio, manufacturers of the "New Thomas Bicycles," have established an agency at No. 10 Warren Street, New York, which is under the management of E. W. McCarty, well known to the bicycle and Hardware trade as the son of J. C. McCarty, the senior member of the firm of J. C. McCarty & Co. Possessing as he does the characteristic energy and industry of his father, combined with a thorough knowledge of the requirements of the bicycle business, his large acquaintance in the trade makes him admirably fitted to distribute the product of the Thomas Mfg. Co., which includes a line of juvenile cycles as well as those intended for adults.

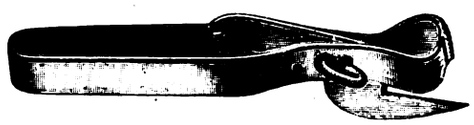
Bath rooms in public schools are a novelty that Boston will introduce in its new buildings. The latest structure of an educational nature in that city is to cost $350,000, and will be fitted with toilet, dressing and bath rooms for both sexes, with eleven shower baths and foot baths as well.

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NEW GOODS AND SPECIALTIES.

The Klondike Can Opener.

In this connection we show the Klondike Can Opener, manufactured by the F. J. Hall Co., manufacturers of specialties, Wallingford, Conn. A personal examination of this tool leads to the belief that the manufacturers are not extravagant when they describe it as not only new in construction, but as first-class in every respect, and finely finished. A glance at the illustration will show the method by which the combination is worked. By turning the set



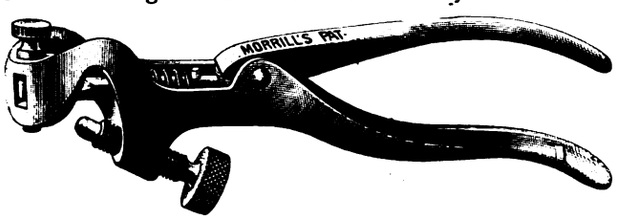
screw the blades revolve, and either tool is brought into position. A large fulcrum is furnished for the tack puller, so that the tack is raised out straight before the tack strikes the floor. The purchaser, in fact, gets two first-class tools for the price of one. The tool is made of crucible steel, blades tempered and sharpened to a keen edge. The handle is of Bessemer steel, plated and highly finished. These tools are handsomely put up in a novel and attractive manner of one dozen in a case.

Morrill's "New No. 1" Saw Set.

The "New No. 1" saw set manufactured by Charles Morrill, No. 35 Warren street, New York, has entirely superseded the old pattern formerly in vogue, and the sales for the same are claimed to be far in advance of all anticipations. The essential parts of the old saw set which made

TRADE MARK.

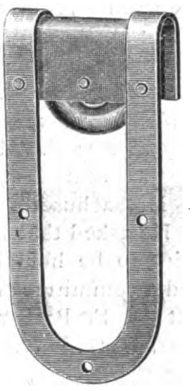
it formerly so popular have been made doubly efficient, by the new and correct devices for positive adjustment which form the important features of the "Morrill's New No. 1" saw set. The great advantage of setting saws by the Morrill saw set, over any other on the market before its advent is the principle of direct pressure. The old method was to use a hammer or hammer set, or a punch and steel block, but this manner of setting was rarely perfect in its operation, for if the saw proved soft it was apt to fibrate, and if it was too hard it would granulate, either of which conditions was fatal to the cutting qualities of the saw; for after undergoing the hammering process the grain of the steel became so distorted it would not hold an edge. The Morrill method by which success



was attained by direct pressure, was proved to be more favorable to the saw. If the operator will only study the principles involved in its construction he will find it is not necessary to injure the most delicate saw made if this new saw set is used. The saw should be set frequently, as the teeth wear at the points on the outside, forming a wedge, and the saw necessarily binds in consequence. By setting the teeth over again, even one-hundredth of an inch, will enable your saw to go on cutting smooth and straight. It is a well-known fact that many saws are spoiled, bent and broken, through the lack of proper attention at stated intervals. The adoption by Mr. Morrill of the now well-known "trade-mark" illustrated herewith, which trade-mark will be found on all goods of his make, has made it extremely difficult to market any similar saw set that might be substituted for the genuine article.

A New Hanger.

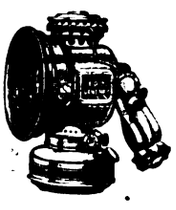
We show in the accompanying illustration a new Hanger just put out by Lane Bros., Poughkeepsie, N. Y. It is called No. 25, being somewhat similar to their No. 30 and



No. 50, but is designed especially for light doors. The makers will gladly give full information, circulars and prices to those interested.

Twentieth Century Lamps and Cyclometers.

The Twentieth Century headlight, one of the standard lamps of the century, has been radically improved for 1898, the new model being a much improved and simplified article. The front is now hinged, opening like a door, so that the glass does not require removing to be cleaned. The manner of attaching the oil fount is now easy and effective, as is the way of locking the wick. The oil-spout, too, has been placed on the outside of the fount, rendering filling and refilling possible without detaching the fount from the body of the lamp. The reflector is





now on the same parabolic lines, but increased in reflection surface, and gives even a greater volume of light, although it is well known that the Twentieth Century lamp always did give a great light. The gossamer hood, quite original with the Twentieth Century, will continue to be supplied.

A rigid bracket of their own patent has been adopted by the Twentieth Century Mfg. Co., No. 17 Warren street, New York, which is adjustable at any angle, on the post or either side-fork, and is also so arranged that it can be placed on the handle-bar post, when there is an outside brake on the machine. It can also be adjusted to the

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dashboard or side-iron of buggies and runabouts, for it is fast becoming a deservedly popular driving lamp.

The company will have but one style and size of lamp in 1898 model, known as the Standard, made of brass, nickel-plated and aluminum reflector. But they are placing on the market this year a cyclometer of the latest design and improvement in mechanism, which bids fair to become popular, their reputation with the lamp being a guarantee of accuracy and reliability in the cyclometer. It has been thoroughly tested.

In appearance nothing is lacking, the cyclometer being small and well-figured and handsome. It will be packed in boxes of attractive style. Its success should be instantaneous and great.

The New England Hardware Dealers' Association.

The fifth annual meeting of the New England Hardware Dealers' Association was held at the United States Hotel, Boston, on the evening of February 9th, and was a success in every sense of the word. A banquet was served, presided over by President D. Fletcher Barber, who in calling the assemblage to order for the speech-making, happily introduced Hon. Albert L. Harwood, who spoke upon the questions of builders' materials and laborers. An address was also delivered by Charles E. Adams, of Lowell, president of the Massachusetts State Board of Trade, in regard to the exhibition of Massachusetts products at the Paris Exposition in 1900. He asked that the Association be represented at a hearing to be held before a committee on federal relations, and a committee of six were appointed, as follows: President D. F. Barber, Secretary James A, Farless, H. L. Sawyer, H. G. Janvrin, G. W. Burditt and A. M. Wiley.

The annual election of officers was then taken up, with the following result:

Secretary: James A. Farless, Boston.

Treasurer: James L. Work, Boston.

Vice-Presidents: First, Chas. E. Adams, Lowell; Second, Chas. O. Tukey, Chelsea; Third, Lewis W. Thompson, Woburn.

Directors: Hiram G. Janvrin, Boston; John H. Sayward, Haverhill; Edgar H. Bowers, Needham; Arthur C. Lamson, Marlboro; Myron H. Tarbox, Boston; John M. Fiske, Nattick; Harry H. Hale, South Boston.

James A. Farless, secretary, then presented his annual report, in which he stated that the Association had held its own during the recent depressed times, and that the membership remains about the same as it was a year ago, and that the treasurer had a balance on the right side of the cash book. He further said: "During the past year the association has held nine monthly meetings and eight Executive Committee meetings. The attendance at all our meetings has been excellent, and the business of the association has been transacted with harmony and fairness—every member having had a full opportunity to express his views. It is worthy of notice that since our organization no speaker has been called to order by the presiding officer on account of irrelevant remarks."

The final business of the evening was election of president, and D. Fletcher Barber was re-elected by unanimous vote on the first ballot, but on his absolute refusal to hold the office for another year, and as no result occurred on several ballots which followed, the election was postponed until the meeting of March 9.

The new American Steel & Wire Co., which has been formed for the purpose of managing the wire interests of the country, has decided upon officers as follows: President, George T. Oliver; vice president and general manager, Philip W. Moen; secretary, E. J. Buffington; directors, H. W. Oliver, William Chisholm, Wilson B. Chisholm, W. Edenborn, W. E. Rice, and W. Patterson.

Recent Trade Publications.

The N. N. Hill Brass Co., East Hampton, Conn., are sending for the season of 1898 an illustrated catalogue and price list of their extensive line of bicycle bells. This is well printed upon heavy paper, and for a frontispiece shows their extensive works at East Hampton. Full illustrations and descriptions of the bells are given, showing all the details of the same. In a note of introduction the company say: "In presenting our new illustrated catalogue to our patrons, we consider it not out of place to invite their confidence, because of our long experience in the manufacture of bells. We manufacture all of our goods from the raw material, consequently we can give you better goods at the same prices than any other manufacturer. For excellence of castings and finish of workmanship, clearness and resonance of tone, our cast bells, made from pure bell metal, cannot be excelled. Warranted to give satisfaction in every way. Your line will not be complete without these bells."

The Troy Nickel Works, Albany, N. Y., who are always getting out something original in the way of exploiting their line of "Always Cold" goods, have sent us a "full hand," each of the five cards being sufficient to make the other fellow look scared. There is a note of explanation which says: "Imitation is the order of the day. The real and the unreal live side by side. The good and the bad are neighbors. All first-class men are successful. All honest men succeed. Dishonest men try to, and sometimes do, on the brains of others. But we are the 'Real Stuff,' and have only the best goods."

Farwell, Ozmun, Kirk & Co., wholesale dealers in Hardware, St. Paul, Minn., are favoring their friends with a handsome colored map of the world, which shows the latest changes in the boundaries of the nations, upon which is printed a calendar for 1898, and some brief remarks as to the various specialties which they handle. According to this map, St. Paul, Minn., is the chief city in the world, as it is designated with red ink, while Rome, London, New York and Asbury Park are compelled to content themselves in plain black. This is a very attractive map, and at present adorns the walls of the *Hardware* editorial rooms.

The North Bros. Mfg. Co., Philadelphia, Pa., are sending their friends a very attractive little publication entitled "Ice Cream Freezer Perfection." This is printed in black and white, and is very tempting in appearance, as the front and back pages are covered with dishes of ice cream, prepared, we suppose, with the good offices of the freezers made by this company, among which are the Lightning, the Gem and the Crown. This publication gives a full description of their extensive line, and must certainly be a matter of interest to Hardwaremen.

Allerton-Clarke Co., Nos. 97 Chambers and 79 Reade Streets, New York, have recently issued an illustrated catalogue of bicycle sundries manufactured by them and for which they are sole agents. The price list includes an extensive line of bicycle bells, covering twenty-four different varieties; tandem gongs, spoke wrenches, chain lubricants, repair kits, toe clips, lamp brackets, luggage carriers, bicycle saddles, lamp locks, cycle and sprocket padlocks, bicycle stands and home exercisers; wrenches, lamps and cyclometers.

The Coates Clipper Mfg. Co., Worcester, Mass., makers of the well-known line of Clippers that for so long have borne their name, are sending their friends a handsome standard desk calendar for 1898, finished in heavy morocco, with gelatine surface. It is an ornament that will adorn the desk of any business man.

HARDWARE costs only One Dollar a year.

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Minnesota Hardware Dealers' Association.

It was a representative body of Hardwaremen that filled the Commercial Travelers' Hall, Minneapolis, Minn., on the 9th inst., when the Second Annual Convention of the Minnesota Retail Hardware Dealers' Association took place.

They were made welcome by the President, Charles F. Ladner, who, while expressing his intense gratification at the large turnout of the members and their friends, dwelt upon the advantages which such associations conferred upon their associates, the usefulness of which was greatly increased by the addition of such analogous branches of trade as would be benefited by Association contact.

The convention was a very harmonious one, representing as it did a membership of over 330, which it was felt would be largely increased by additions during the current year; for from the secretary's report, which was a long and exhaustive one, it was shown that a revised list of retail dealers for Minnesota covered 1500 names, and could be more largely drawn upon.

The election of officers for the ensuing year was the first business disposed of. The members showed their appreciation of the work which had been done by re-electing most of the old officers. The list elected is as follows:

President, Charles F. Ladner, St. Cloud.

Vice president, Hon. A. T. Stebbins, Rochester.

Executive committee: W. H. Tomlinson, Le Sueur; C. F. Stremel, Minneapolis; John Schleck, St. Paul; James E. O'Brien, Crookston; J. P. Watson, Marshall; E. A. Moye, Duluth; Clement Schroeder, Mankato.

The president and vice president are members of the executive committee by virtue of their office. The secretary and treasurer are elected by the executive committee.

The convention was then addressed by C. N. Barnes, secretary of the North Dakota Retail Hardware Dealers' Association, who spoke at some length, expressing his pleasure at the opportunity afforded him of meeting his Minnesota brethren. He referred with pride to the good work in the way of organization of retail interests, forwarded by the association of which he was secretary. It was work that was full of continuous effort, and showed a grand result in the securing as members of 100 out of the 180 dealers doing business in that State.

Secretary C. A. Peck of the Wisconsin Retail Hardware Dealers' Association, being invited to address the convention, made an impressive speech in which he set forth the advantage of association, which he thought provided the members with new and broader views of the trend of trade, and the confidence in co operation of effort made popular by a better acquaintance with their competitors, and fostering a community of ideas and harmony of business methods. He believed it would result in a better average profit being made by the associated dealers, as the distribution of information constantly improving economic advantages would be well worth all it cost.

B. W. How, of Sauk Centre, upon being introduced by the chairman, read an extremely interesting paper on the subject of "Unselfish Loyalty to the Association." Among the many thoughtful reflections which filled his address he said:

Members of this organization subscribe to the resolutions that they will not buy merchandise from any house which opposes the objects of our association, or which sells to any corporation or firm which would be defined as a catalogue house or department store. Unswerving loyalty to such resolutions means often some sacrifice of convenience and even profit, but a merchant who honestly subscribes to our resolutions must temporarily suffer this inconvenience and loss, and decline outright the purchase of any article offered him by a firm unfavorable to the objects of our association. Whether goods so offered seem an absolute necessity or not, the ultimate success of our organization and the final achievement of our purpose depend upon the unselfish and steadfast observance of this rule.

An exceptional few who in a half-hearted way subscribe to these objects, and are faithful to them in just so far as they do not conflict with personal interests or immediate profit, are a positive damage to the association and should not enroll themselves as members. While numerical strength is of the utmost importance, unity of purpose is equally vital, and the disloyalty of but a few members means our disruption, because it would be reckoned as the early sign of weakness, and houses unfavorable who note this would feel less discouraged, while houses now favorable would feel less encouraged.

Other addresses were made by members, one on "The Success of Our Organization," by E. A. Moye, of Duluth, and James E. O'Brien, of Crookston, read one on "The Work of the Association," which were listened to with eagerness and appreciation, and added greatly to the interest of the work of the association. The visiting members from other associations were also heard from, which list included J. Newton Kind, secretary of the Northwestern Lumberman's Association, and President Clark W. Kelley, of the North Dakota Retail Hardware Dealers' Association. After listening with interest to an amusing paper read by S. M. Davis, of Minneapolis, the convention a little later went into executive session for the purpose of discussing matters of a private character. During the executive session the Committee on Resolutions reported in favor of all that had been referred to them, except the one admitting implement dealers to membership. The question of forming a Northwestern Association was referred to the Executive Committee with power to act, and a joint meeting was immediately called at 4 o'clock in the afternoon. St. Paul was selected as the place of meeting next year, although the Duluth members extended a warm invitation to the association to visit the Zenith City on that occasion. The convention adjourned to meet in February, 1899.

"The Best" Wrench for 1898.

The above caption is found upon some attractive circulars issued by the Best Wrench Co., No. 21 Quincy Street, Chicago. A very comprehensive idea of the character of this wrench may be learned by an examination of their card upon page 81 of this issue.

The manufacturers call attention to the fact that this wrench has been improved for 1898, and that it carries the recommendation of many expert cyclists. As will be seen by the illustration, this comprises four complete tools in one, or an adjustable wrench, an alligator wrench, a nipple wrench, and a screw-driver, all in one. In further explanation they say that they can be quickly adjusted; are perfectly rigid; there are no springs or screws to rust or wear out; the length when closed is five inches, and the weight four and a half ounces; and that they are case-hardened, nickel-plated, and nicely finished. Full particulars as to prices, etc., can be had of the manufacturers on application.

The Boston Gas Light Co. are erecting a new gas plant at Commercial Point, in the vicinity of Boston. This new plant consists of a building about 52 feet wide and 185 feet long, having brick side walls and brick partition walls dividing the building into three distinct parts, made up of a generator house, blower room and condenser room. No wood is used in the construction of the building, and it is absolutely fireproof. The floors are of steel throughout. The roof is covered with slate supported on steel roof trusses and framing. The contract for furnishing and erecting the steel roof work complete has been let to the Berlin Iron Bridge Co., East Berlin, Conn.

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WESTERN TRADE MATTERS.

Editor Hardware:—The new year is opening with brightest prospects. Travelers book a better quota of orders than at this time last year, and collections are much easier. The happiest feature of new year transactions is that country merchants are entertaining more liberal views. In the cities, the policy of from-hand-to-mouth buying is rapidly disappearing.

The dealers are preparing for a busy bicycle season. Interest in this line is already awake. From present forecasts, $75 will be the ruling cash price for standard makes of the chain model; only a moderate demand is expected for chainless wheels, and but few dealers seem to take any interest at all in the novelty. The managers of several big houses are of the opinion that the manufacturer of a first-class wheel, which can be profitably handled at $50 retail, will mark an epoch in the bicycle history of 1898. Economic conditions seem to demand such a wheel, and the sooner it is brought out, the quicker will bargain or department store wheels cease to make propaganda.

BICYCLE BUYERS' CLUB.

A Western merchant advertises "Advance Sales of Bicycles Greatly to the Interest of the Economic Buyer." His scheme is to induce clerks, mechanics and other wage earners to join a buyers' club. Every week or month the members pay a stated sum to the merchant, who is the self-constituted treasurer of the buyers' club. The club's life is six months—the extent of the winter season. When spring arrives, every buyer will have paid enough into the club's treasury to secure him a first-class wheel. As a special inducement to increase the membership of the club, this merchant-banker offered to pay 5 per cent. interest on all moneys received by him, beginning with the date of the first payment. The merchant informed me that the club had fifty members, and that this instalment plan is proving a very satisfactory venture all around.

THE ARCHITECTS AND CONTRACTORS.

All the live Western cities are busy with plans and specifications to be executed during the spring and summer months. Not since the great boom years of our history, was there such an avalanche of prospective builders. This will insure a season of great activity to manufacturers of structural and builders' Hardware. The merchants in the distributing centers are already preparing for the rush, and are buying larger stocks than ever before known at this time. This is probably a very wise move, for, last fall, when capital became inspired with confidence, a great many building enterprises were at once planned and executed. The demand for material came so fast and furious that manufacturer and dealer were put to great disadvantages in meeting this demand on time. Many contracts went by the board, owing to the inability of manufacturers and supply men to furnish material on time, and these delays entailed great loss to the parties involved. Such contingencies will be avoided or minimized by the policy as outlined above.

SOME ADVERTISERS.

Extract from an ad.: "If we sell you a defective file, file your complaint with us, not with our competitors. They will probably sell you a poorer file than ours, and give you a 'good jolly,' while we would gladly explain the defects away by giving you a perfect one."

"A big demonstration in nail pullers," was the announcement of a Chicago merchant. The window had been transformed into a shipping department. There were boxes of all kinds. They were nalied together with all kinds of nails. Some of the nails were driven to further the purposes of the demonstration. In the other window were exhibited the nail pullers of which the firm would make a fiasco of. Six negroes had been engaged to "pull off" this nail-pulling match. They were divided into two factions, each given an equal amount of work and a stated space of time to do it in. Nail pulling brigade No. 1 operated with the firm's pullers; No. 2, with those proscribed by the firm. Brigade No. 1 were instructed to do their work with promptness and dispatch—and they did it; No. 2 were instructed to enact a rough-and-tumble nail pulling pantomime—which was to constitute the "real" show—and they did it, too. Anyway, they drew large audiences, and to judge by the applause, they were well pleased. The "show" ended with brigade No 2 being carried away on stretchers. A bulletin was then posted in the window, with the following text: "Our nail-pulling demonstration ended in bloodshed. The snide pullers did it. The three gentlemen operating with our pullers are in our private office, ready to receive your congratulations and to explain how they did it."

A wire salesman sends out the following postal to his trade: "The 'whole thing' wire salesman is born, not made. I was born wiry. I can even stretch my conscience, spin endless yarns, unwind a lot of red tape, but never become entangled in my own meshes. Look out for me on the 'teenth instant. I am slick as a wire trap."

A Detroit dealer got hold of a carload of iron enamel at a big discount—enough he thought to outlast his commercial career. The stuff did not move, however, and space in an up-to-date Hardware store is always valuable. The erstwhile pleasant bargain reminiscence soon degenerated into a bugaboo in the dealer's mind, and every time iron enamel was mentioned to him, he felt like a poor success. One day he read something about printers' ink as an efficacious remedy for commercial ills. Ordinarily, he would have branded this a lie—for he was a chronic non-advertiser. But circumstances alter cases. They did here. After an hour's attempt at ad. writing, the following announcement was sent out to the dailies: "A consignment of iron enamel for sale at cut prices. Adapted for smoke-stacks, stove pipe , fire-place casings, fences and any iron thing about your house or premises which needs a coating. Lay in a stock for spring renovations."

"Well, How's the iron enamel?" quizzed a friend who was on to the merchant's "bargain ghost," when they met at the store a couple of days later.

"Iron enamel? I haven't a package in the house. All sold, and through a damfool advertisement. Who would have thought it? Hereafter, I'll advertise every blamed thing in the house that stays longer than necessary."

The friend took the latter remark as a hint and departed. On the sidewalk he stumbled across the man who writes *The Sights in Town.* The reporter quickly noticed that something unusual had happened to this citizen of his acquaintance. And he got the full story. He printed it with the heading: "How a recruit to our list of advertisers was made."

"The wire chain, as a substitute for the German welded chain, is coming into strong favor. It is so ideally American that it recommends itself on sight." Extract of an ad. in a Pittsburg paper.

"The demand for plating outfits, nickel plating, especially,

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is becoming so large that it would pay any venturesome city merchant to make a specialty of them," was the remark of a traveler handling plating outfits as a side line. But, by the way, the commissions derived from the line exceed the salary paid him by his house, which goes to show the strength of his remarks. The American householder must have found a new and agreeable pastime.

Here's an ad. attempt committed at Cleveland: "While you are busy shoveling snow, we would not invite you to an inspection of our '98 lawn mowers. We only desire to replace your snow shoveling emotions with the happy lawn-mowing thoughts which are superinduced by our perfect clippers and trimmers."

A Kansas City merchant bethought himself of making a specialty of horse clippers and curry combs. He found the line very compatible with his trade, and bought every novelty that came out. But horsehair clipper inventors have become as numerous as lightning-rod agents, and some unreliable. Thus many of his investments "turned out bad," but even a Kansas City merchant can become wise. Now, if any horse clipper or curry comb man wants to talk business with this merchant, he must produce "tangible and evident" proof of his claims. By "tangible and evident" proof the merchant means that the salesman must bring a real live horse to the store. A window has been especially constructed to accommodate him. This done, the demonstration of the clipper or curry comb merits may be proceeded with. If, in the opinion of the merchant and the crowd which is always attracted by such an exhibition, the articles thus tested are possessed of market value, the merchant will invariably add them to his stock. It's an unique way of buying, but it's pretty safe.

Cleveland, Ohio, Jan. 31, 1898. J. B. RINDFLEISCH.

A Washington Burglary.

The cutlery and sporting goods store of D. N. Walford, No 909 Pennsylvania Avenue, N. W., Washington, D. C., was broken into and robbed shortly after ten o'clock Thursday night, February 10th. The thieves climbed on the roof from the rear of the store, and in some manner effected an entrance through a window near the roof, and carried off 500 or more pocket knives, mostly Rodgers and Wostenholm, ranging in price from 25 cents to $7 50 each. Half a dozen revolvers, Smith & Wesson and Marlins, several North Star Bicycle Lamps and a valuable compass, were also taken. The robbery was not discovered until the following morning, and was immediately reported to police headquarters. Besides the cutlery and sporting goods, the cash drawer was broken open and $18.90 in change taken. Not a thing was left behind which would give a clew to the identity of the thieves.

The Iver Johnson's Arms & Cycle Works gave an elaborate smoker at their branch house in New York on Wednesday afternoon of last week. The entire establishment was handsomely decorated with plants and bunting, and the manager, W. H. Cole, did the honors for the occasion. It was very largely attended by the dealers and agents who had been invited. Souvenirs of several kinds were distributed, and altogether it was a memorable affair.

Walter W. Woodruff & Sons, Mount Carmel, Conn., have purchased of The Wm. Schollhorn Co., New Haven, Conn., their patterns, tools etc., for the manufacture of carriage spring locks, spring box locks, seat locks, anti-rattling box lock strikers and dovetails, and will continue the manufacture of them in connection with their own large variety of carriage locks and other lines of carriage Hardware.

The million general circulation may be valueless to the man who wants a particular thousand.—*Exchange.*

Review of the Markets.

Hardware: Local trade has experienced no remarkable impetus during the past two weeks. Orders covering quite a variety of shorts are being received from the retail trade by the jobbers, but the orders to manufacturers and their agents here, are very conservative as to quantities. The trade generally appear to think any important advance in price as being unlikely under existing conditions, and are not stimulated to add largely to present stocks at this early date under any speculative influences.

Wire Nails: No weakness is indicated in the market price of this important commodity, and the prices agreed upon for February and March are being fully sustained under an increasing enquiry and a steady booking of orders for present requirements. Mill quotations are represented by the carload price f. o. b. mill of $1.50 at either Cleveland or Pittsburg; with a reduction of 5 cents a keg for above quantity to jobbers. New York quotations for carload lots are: $1.60@$1.65 on dock; smaller lots from store 5@10 cents a keg advance. These are the present quotations applying to February. For March delivery it is agreed that an advance of 5 cents a keg be demanded. Prices are held very firm, no weakness being manifested, and the present conditions seem favorable for a satisfactory business without any drawbacks.

Cut Nails: But little if any change is shown in the conditions surrounding the cut nail market. Prices are quite low, and at the quotations prevailing of late have held their own, further concession being scarcely anticipated. We quote carload lots on dock, New York, $1.25; smaller lots from store $1.30.

Agate Nickel Steel Ware, etc.: Lalance & Grosjean Mfg. Co., No. 19 Cliff Street, New York, as applying to their new catalogue, announce the following discounts:

Agate Nickel-Steel Ware	40%
Pearl-Agate Ware	40%
Peerless Ware	70%
Crystal Steel Ware	50%
Blue and White Ware	50%
White Ware	33⅓%

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, under date of February 15, 1898, quote as follows: In lots of less than 5 barrels, 44 cents per gallon; in lots of 5 barrels or more, 43 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon. Above prices are subject to change without notice.

The Van Wagoner & Williams Hardware Co., Cleveland, Ohio, and No. 14 Warren Street, New York, make the following quotations, under date of February 12, to apply to catalogue of September, 1897:

American Spring Hinges,		Japanned	20%
" " "		Bronze Plated, etc	20%
Gem " "		Japanned	30%
" " "		Bronze Plated, etc	30%
Oxford " "		Japanned	30
" " "		Bronze Plated, etc	30%
Acme " "			30&5%
Advance " "		No. 20 per gross, pairs,	Net, $9.00
Knoxall " "		No. 15 per gross, pairs	Net, 9.00
Columbia " "		No. 14 " "	Net, 8 00
" " "		No. 18 " "	Net, 24.00
" " "		Bronze Plated and Real Bronze,	50%
" " "		For Marble	25%
Cambridge " "			25%
Strikes			25%
Crown Spring Hinges			30%
Cabinet " "			25%
Show Case " "			30&5%
Torrey Door Springs.	per gross, 30 ins., $16.00: 48 ins.,		$42.00
Gem " "			25%
Star " "			35%
"American Trackless" Door Hangers			33⅓&10%
Door Rappers			40%
Door Pulls			50%
Domestic Blind Adjusters			33⅓%
Unique " "			33⅓%
Gem Wire Coat and Hat Hooks			70%
" " Ceiling "			70%
Samson Anvil's 10 to 40 lbs			45%
" " 50 to 90 lbs			45%
" " 100 to 250 lbs			45%
Solid Box Vises			60%
Boxes and Screws			25%
Plain Parallel Vises			40&10%
New Model Swivel "			40&10%
Coachmakers' "			40%
Oval Slide "			55%

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THE BALTIMORE TRADE.

It is gratifying to report a marked improvement in trade during the past fortnight. Nothing phenomenal, but a healthy demand stimulated by the gradual betterment of industrial conditions and the certainty of higher prices for agricultural products than ruled last year. The enforced economy practiced by the farmer and planter may result in conservative buying on their part, but the reduction of their indebtedness will be a sufficient inducement for the merchant to order freely such seasonable goods as his trade requires. Lean, skeleton stocks will not produce a fat bank account, and bare shelves cannot be expected to yield a large dividend. If indications count for anything prices will be higher on many lines in the near future. A slight stiffening is already noted on wire and wire nails, screws, bolts, tacks, wrought padlocks, loaded shells, etc., with but few, if any, declines during the present month.

Seasonable goods are moving freely; handled hoes, picks and mattocks, poultry netting and wire cloth perhaps receiving the most attention. Builders' Hardware shows signs of improvement, and advance orders for screens are being placed for the better grade of goods. We look forward to a continuance of the improved conditions, and when the diminutive war-cloud vanishes, believe a fair volume of business will be done.

THE TABB & JENKINS HARDWARE CO.

ST. PAUL TRADE.

There is little to be said about the business situation at the present time that could not have been said a month ago. The fine weather that we were then favored with continued until this morning, when a snowstorm set in, that, while not severe, bids fair to give us some sleighing.

The volume of business up to the present time is far in excess of that for the corresponding time in 1897. The country tributary to this city is largely interested in wheat, and the recent advances in this commodity, have, of course, largely benefited the farmers who have wheat to sell. It also gives fresh courage and hope to those who have sold their crops, as there is every prospect that the next crop will command a price much better than the price ruling in 1896 and the early months of 1897. All this serves to stimulate business.

In brief, the situation can be summed up as follows: The present business is very good for this season of the year, which is usually the most quiet of any part of the year. The outlook for the future is better than it has been at any time since the panic of 1893 first overtook us.

C. W. HACKETT HARDWARE CO.

THE CLEVELAND TRADE.

The January and February trade has not been entirely satisfactory. The constant decline in prices for so long a term has created a timid conservatism that is not easily overcome.

The benefit of this is that it is likely to prevent a boom, as speculators cannot create one unless the public can be induced to participate. Retailers, as a rule, are buying for immediate wants only.

The talk of a combination of wire and nails has not induced purchases on speculation. The possibility of their failing to perfect the organization, and the demoralization which usually follows when such attempts fail, has suggested caution The usual advance orders have been placed for these goods, and the purchases are likely to prove profitable. The marked advance in pig iron recently, caused by an unusually large purchase by Carnegie, will not, it is thought, permanently affect the market, as stock seems to be accumulating, and there will be very little advance, if any, in ore for next season. The Northwest can spare us twenty million tons per year, and boats are plentiful to transport it. The advance in hemp has increased the price of rope and binder twine, so that orders that have been placed for these goods will prove profitable.

The bicycle trade just now is getting more attention than other lines, as agencies are being established. The trade is steadily falling into the hands of Hardware dealers, and unreliable makers and dealers are being weeded out. Profits are less and the goods much better, so that responsible parties can afford to handle them as a legitimate line.

The country is likely to be busy, but as the surplus to be exported fixes the price for home consumption, we are to have an era of low prices. Expenses must be reduced if the balance sheets are to please proprietors. Some modification of our financial system is necessary if confidence is to be maintained and American money now deposited in Europe and in our home banks is to be invested in business, and then if we can avoid foreign complications, we ought to be prosperous and happy and fairly contented with our lot. THE LOCKWOOD-TAYLOR HARDWARE CO.

THE COLUMBUS TRADE.

We have had all kinds of weather during the past two weeks. One day the blue birds would be singing, and the next the boys would be skating. You would go home at night without an overcoat, and the next morning slip down on the icy pavement and break your back. We do not have the glorious climate of California enjoyed by some. Still we are happy and cannot complain of trade.

We are receiving notices almost daily now of advances, and but few of declines in prices. This is a healthy indicator. If merchants have sense enough to get the advanced prices on goods, it will help their balance sheet at the end of the year.

Rope and binder twine have been gradually advancing, and it would not surprise us to see both go still a little higher.

This is the week of the State Hardware Association Convention here, and the indications for a good attendance are encouraging. SMITH BROS. HARDWARE CO.

THE PITTSBURG TRADE.

Fire insurance is an important matter to the merchant and his creditors as well. This is called to mind by the very large losses by fire in Pittsburg during the past few days. Even what are called fireproof buildings burn with astonishing frequency and great loss results, for it is in these buildings that immense stocks are carried. Our idea of insurance is that it is one of the legitimate expenses of a business and should be always carried to as near the full value of the stock as possible. The only persons who have a right to assume the risk themselves are those so well able to bear the loss if it comes, that their creditors need have no concern about it.

Business is quite good for this time in the season. Orders by mail and through travelers are well assorted, showing better call for the general line. Early orders for bicycles are being taken and sample lots sent out. The rider will get a good wheel for very little money this year, but the profit to the jobber is small. Bicycle sundries promise to have a large sale this season.

The large increase in the clearing house balances for the past few weeks is an index of the growth of business transactions. Pittsburg shows its full share of this increase.

LOGAN-GREGG HARDWARE CO.

THE DAVENPORT TRADE.

A gentleman said to the writer this morning: "It is only a question of time until jobbers, especially the Hardware jobbers, must go; that soon the retail dealer will make his purchases from the manufacturers direct, and then there will be no room for the middle man."

This was rather sudden to a person who had spent thirty-four years in this wholesale Hardware house, and had grown gray in its service. Judging from the size of the

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store, and the amount of business done at the time he entered it as an employee; watching its developments and continuous growth through all these years up to the present time, and knowing what it is doing to-day, concluded that the jobber was appreciated and had become not only a convenience but a necessity. Astounded at the statement of the visitor, who is an old Hardwareman, we wondered if it was true. In looking over our sales of yesterday we find one bill of miscellaneous Hardware amounting to $362.20, and that it represented by actual count one hundred and twenty-nine manufacturers. If our customer had known the address of each of these factories; could have bought at the same prices as ourselves; had had credit with each one; if each of the makers had been prepared to ship goods on the day order was received, would it have been more profitable to have bought direct than to secure them in one bill and have them on his shelves in twenty-four hours, where he has them to-day? Counting the stationery, postage and work of writing orders at 5 cents each,

129 would cost	$6 45
Manufacturers for mailing invoices	6 45
Dealers remitting for same	6 45
Exchange on 129 drafts at not less than 10 cents each	12 90
Being a total of	$32 25

or about 9 per cent. If packing and carting had averaged on each invoice 25 cents the cost would have been $32.25, or nearly 9 per cent.—suppose the freight in each case was 50 cents in excess of what it was from Davenport it would amount to $64.50 or 18 per cent, a total of 36 per cent.; to say nothing of the annoying delays and the use of goods so long in transit besides the necessity of buying in larger quantities than capital would warrant or trade demand. Would it have paid him to have bought direct?

SICKELS, PRESTON & NUTTING CO.

THE PHILADELPHIA TRADE.

It is pleasant to report a very steady movement in trade, and while buyers are still conservative, still day by day the feeling deepens that better times are in prospect, and that conditions are steadily improving.

Financial reports of the past week are most encouraging, and there does not seem to be a cloud on the business horizon except those arising from the Maine disaster, and from the newspaper jingoes who seem anxious to precipitate war. In the present crisis it seems wise to suspend judgment until the facts are known, and in the meantime the effect on business is fortunately very slight.

Spring goods are a little slow, owing, perhaps, to the rainy weather, but the bicycle and bicycle sundry trades are opening up, and seasonable goods will doubtless follow.

Prices show but little change in either direction, although manufacturers are anxiously awaiting an opportunity to advance their prices.

It is noticeable that money seems easier throughout the country, and collections are better in consequence.

On the whole a much more hopeful feeling prevails, while we all feel that the coming improvement may be all the more positive and lasting if of slow development.

BIDDLE HARDWARE CO.

H. B. Rusler's advertisement of the Comet Sprayer in another column of this paper is worthy of notice. The Comet is a Lawn and Garden Force Pump as well as a Fruit Tree Sprayer. If you will write to H. B. Rusler at Johnstown, Ohio, he will forward you free catalogue and hints on spraying, and will be able to convince you that the Comet is all that he claims for it. The very low price at which the Comet is sold places it at once within the reach of every one in need of a Sprayer. Mr. Rusler is one of the oldest manufacturers of Sprayers, having been making the Comet for the past nine years, adding valuable improvements from year to year.

A. Weed, of the Arcade File Works, brought back from his ranch in Wyoming, last Fall, several results of his prowess as a hunter, and the Hardware Club of New York City has been fortunate in securing a magnificent elk-head and antlers, one of this collection, with which to adorn the walls of the dining-room. The officers of the Club trust that future trips may result in further donations of this character, as they add largely to the elegance of the Club dining-room.

M. C. Henry & Co, New York City, are enlarging their plant and making some extensive improvements. Their new steel stone shed, which is about 50 feet wide, is to be extended about 70 feet in length. The metal work, which consists of the steel framework of the building, the covering upon the roof and sides, and the metal runway for traveling crane, is being furnished and erected by the Berlin Iron Bridge Co., East Berlin, Conn.

The growing popularity of the bicycle in Mexico is causing the attention of American capitalists to be turned toward the manufacture of the wheel in that country. The government has granted two concessions for the establishment of bicycle factories. One will be started in the City of Mexico, and the other at Monterey. Bicycles of American make are exclusively used in Mexico.

L. L. Hull, Clinton, Conn., under date of February 1st, makes the following announcement: "I beg to announce that I have sold my scale and Hardware specialty business to Sturges G. Redfield, who has been my assistant during the past fifteen years. Mr. Redfield will continue the business under the name of the L. L. Hull Co."



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North Dakota Retail Hardware Association.

The second annual meeting of the North Dakota Retail Hardware Association was held in the city of Fargo on Wednesday, February 16th, and although the Association was young in years, it proved a very enjoyable and interesting occasion. Nearly seventy firms were represented. The president of the Association, Clark W. Kelly, called the convention to order, introducing at the same time the Mayor, who extended a hearty welcome to the city of Fargo of all the delegates present. President Kelly then proceeded to deliver his address, which was listened to attentively, and in the course of which he said:

"Most of our time has been devoted to the increase of membership, and while the expectations have not been realized, a report is to be given showing nearly 100 members, including most of the strongest dealers in the State. I feel confident that if outside dealers could know of the derived benefits in other States, and what we are determined to accomplish in this, they would join at once."

The president was followed by C. N. Barnes, of Grand Forks, the secretary of the Association, who made an extremely interesting annual report, giving evidence of the important labors connected with this honorable position. He was very proud of such results as the following:

During the four months of our organization we have added to our membership over 60 members, but it has mostly been done by correspondence and the good words spoken of our association by some of the traveling men who are with us. I am proud to be able to say that at the present time the North Dakota Retail Hardware Association has the largest number of members in its organization in proportion to the number of available dealers in the State of any similar State Hardware Association. This membership covers every part of the State, and we have members from every county where there is a Hardware dealer, except in three instances.

The first matter taken up was the election of officers. Clark W. Kelly was nominated for re-election as president, receiving a unanimous vote. He thanked the members for the demonstration of confidence that followed the vote, and assured them that he would give association affairs as much of his time as possible.

C. F. Jacobs of Hillsboro was nominated for re-election as vice-president, and received a unanimous vote. A committee of five was selected by the president to name an Executive Committee, viz.: H. A. Moe, Church's Ferry; A. Tanguay, Willow City; G. W. Wolbert, Casselton; H. L. Eastman, Wahpeton; M. Upham, Grafton.

The Executive Committee reported by the committee were promptly elected, as follows: W. R. McIntosh, Bottineau; H. Hafrington, Fargo; J. F. Newgaard, Grafton; H. B. Allen, Jamestown; O. A. Gallup, Edgeley; A. J. Smith, Fesenden; W. H. Pinkerton, Lakota, and the president and vice-president.

In the executive session, which was held later in the day, a number of interesting and instructive papers were read, among which was one by L. P. Strong, of Neche, on "The Importance of Small Things," and another by H. F, Strehlon, of Casselton, on the subject, "What are the Benefits of this Association to us?"

Make a Note of This.

Accidents are common in all trades, and where they are apt to be of a sudden and acute nature, it is but humane to be prepared for emergencies. In this connection the following is worthy of note: A Parisian doctor has discovered that a solution of 1 part of picric acid to 75 parts of water will surely and speedily cure the most terrible burns and scalds, and recommends that barrels of the solution be kept in foundries, etc., in which workmen could be immersed. The pain is instantly removed, sores and blisters prevented and a cure completed in four or five days.—*Ex.*

C. W. Casper has purchased the general Hardware establishment that has heretofore been run under the name of French Bros, No. 170 State Street, Marshall, Mich., and proposes, with his usual energy, to make it one of the live concerns of that very much alive portion of Michigan. He intends to add many new lines, and, to quote his own expression to a representative of *Hardware:* "See if a modern Hardware store will not pay out here." Mr. Casper is in the market for Hardware of a miscellaneous character, and to that end, would be pleased to receive catalogues and discount sheets from jobbers and manufacturers everywhere.

What the man of to-day needs most is not athletics in a gymnasium, but plenty of fresh air in his lungs. Instead of a quantity of violent exercise that leaves him weak for several hours afterward, he needs to learn to breathe right, stand right and sit right. And if the woman who spends so much time and strength getting out into the air would dress loosely and breathe deeply and so get the air into her, she would have new strength and vigor, and soon be freed from many aches and pains and miseries.—*Phrenological Journal.*

'Tis the retailer's hand
Creates the demand
All over the land.

Advertise in the trade journal whose motto has always been "Hardware Exclusively," and reaches the hands of more *retailers* of Hardware than any other paper soliciting advertising to cover the same field.

Are You Handling Bicycles?

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties
League Tires.

Would you hire a one-legged salesman to show your wheels?

Cheap tires are one-legged salesmen. Always and everywhere lifeless and slow, they are a direct and positive injury to any decent wheel. Speed is not an accident it's a result, and springs invariably from the same causes—the right rubber, the right fabric. And there aren't half a dozen right rubbers and fabrics. Only one grade of each produces speed—Fine Para rubber and selected Sea Island fabric. The supply of both is limited, *and the price always high.* No manufacturer can afford to use either in cheap tires.

Now you want your wheels to run their best and look their best, don't you? Then give them able-bodied tires—made of live, springy Fine Para rubber, and strong, elastic Sea Island fabric.

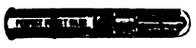
These two go into Leagues—and nothing but these; no soft rubber, no substitute, no cheap fabric. That's why "Get there and get back" tires fairly bound with life and lightness—why John M. Nobre made 253 centuries and the American Record during the year just closed. Mr. Nobre rode 28,718 miles in ten months, **and every mile on League Tires.** No other tire in this country ever made such a record. Specify Leagues on your wheels.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St
Philadelphia...308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.

NEW YORK BELTING & PACKING CO. LTD

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The Best Oiler in the World.
Second only to the "Perfect."
"LEADER," 10c. "GEM," 7c.

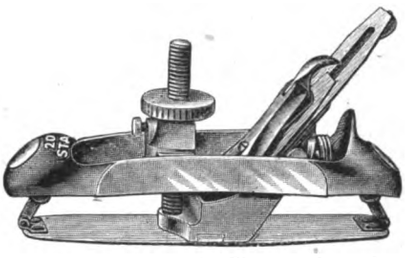




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Our name on an oiler means "best quality."
CUSHMAN & DENISON, - 174 9th Ave, N. Y.

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Labor-Saving
CARPENTERS'
TOOLS.
STANLEY
RULE & LEVEL CO.
New Britain, Conn.
SOLD BY ALL
Hardware Dealers.

Stanley's Improved Victor Circular Plane.



The Flexible Steel Face of this Plane can be made concave, or convex, by turning the screw which is attached to its centre.
No.20. Circular Plane, Nickel Plated, 1½ in. Cutter, $6.00

The Folly of Over-Charging.

If a merchant does not make a profit out of the goods he sells it is only a question of time before he will be compelled to go out of business. That is just as certain as it is that a river will run dry if its source is cut off.

But there is a wrong way as well as a right way of securing profit. And to follow the wrong way is almost as bad as to make no profit at all.

One of the ways in which some merchants follow in their desire to make profit is by charging one or two cents per pound more for this commodity, or a dollar or two more for that article than the ruling market price warrants.

Aside altogether from the injustice of such a proceedure, it is a most foolish one.

Nine out of every ten of the customers thus taken advantage of will discover the fact before a great while, and then nine times out of ten there will be a parting of customer and merchant.

We have no reference to the fact that one merchant often finds himself being undersold by another who is cutting prices. We merely have reference to the man who makes a practice of persistently charging his customers in excess of the market prices for his wares.

That there are those who are doing it is not suppositious. We know it for a fact, and could give names if necessary.

In these days of keen competition it is not the merchant who exacts for his wares more than the ruling market price that obtains success and earns a competency. It is the merchant who is energetic, up-to-date, rich in ideas, and who turns his stock over frequently.

Verily, he that overchargeth his customers is like unto the man who goeth into his cellar and pulleth the plug out of the tap-hole of his wine cask, for when he overchargeth a customer he certainly releases the plug of confidence that is so essential to the keeping of trade.—*Hardware and Metal Merchant.*

Exports of Manufactures.

"The statement of the exports of manufactures from the United States has been less satisfactory during the last quarter of 1897 than for several years," says the *Industrial World.* "There had previously been a steady growth in this branch of our international trade. Thus for 1896 the manufacturing exports were $253,681,541, which was an increase of $52,500,000 over 1895.

"During 1897 the monthly statements continued to show gains of about $3,000,000 per month until October. In that month there was a decrease of $1,230,000, as compared with October, 1896. November showed a slight gain and December fell off again to the extent of $436,000. The export of manufactures for the year, however, reach $279,616,898, which is an increase of about $26,000,000 over the similar exports of 1896.

"This decrease in manufactures exported does not include any shrinkage of the iron and steel trade. On the contrary the latter has steadily grown. The export of iron and steel and manufactures thereof include about 25 per cent. of all manufactures exported, and during the year 1897 increased about 30 per cent. over 1896, the gain for all manufactures being less than 10 per cent."

Considering how great even this improvement is, it should prove to the manufacturing interests that close attention paid to the needs of the export trade will produce results of a very satisfactory kind.

An Irish conductor on a branch of Boston's West End railroad came into the car one day and called out: "Wan seat on the roight! Sit closer on the roight an' mek room for the laddy phwat's standing." A big, surly-looking man who was occupying space enough for two, said, sullenly, "We can't sit any closer." "Can't yeez?" retorted the little conductor; "begorry, you niver wint coortin', thin." It is needless to add that room was made "on the roight" for the lady.—*Exchange.*

THE "KLONDIKE" COMBINATION CAN OPENER AND TACK PULLER.

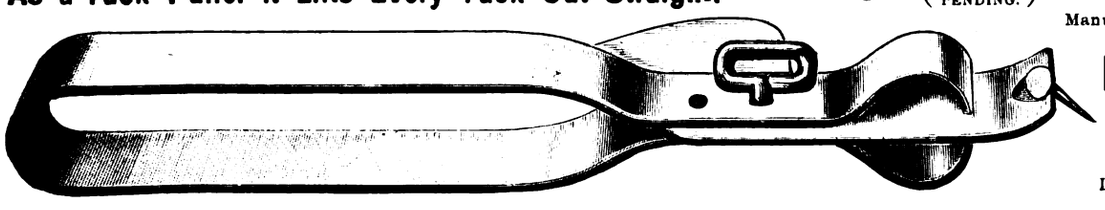
It is the BEST and FASTEST-SELLING 10c. Tool on the Market To-day.



By turning the set screw the blade revolves and brings either tool into position. **Tempered Blade, Plated Handle.** Handsomely put up.

WRITE TO-DAY FOR JOBBING PRICES.

As a Tack Puller it Lifts Every Tack Out Straight. (PAT'S PENDING.)



Manufactured by
F. J. HALL CO.,
WALLINGFORD,
CONN.
L. BOX 631.

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co., 91 Congress St. E., *Detroit, Mich.*

Tin Plate Statistics.

The production of black plates amounted to 436,438,035 pounds, of which 377,588,412 pounds was lighter than 63 pounds to 100 square feet. The total production for the previous year was 334,014,798, so that the increase is more than 30 per cent.

Of the fifty firms reported as producing tin and terne plates, one only used foreign-made plates during a portion of one quarter, the amount being 57,208 pounds, out of a total production by the firm for that quarter of 2?3,687 pounds. Among the fifty-three firms reported during 1896, fifty used wholly American rolled sheets and three used both American and foreign, with an aggregate output of 15,503,154 pounds.

Of this amount 4,226,523 pounds, or about 27 per cent., was made from foreign rolled sheets.

The quantity of tin plates and terne plates imported into the United States in the last fiscal year amounted to 244,407,601.

In the same period the tin plate imported and manufactured for export amounted to 139,246,?30 pounds. From the foregoing figures it is shown that the net imports were 105,161,471, the total domestic production was 446,982,063, the approximate domestic consumption was 552,143,534, and the average capacity of mills on June 30, 1897, was 600,000,000 pounds.—*N. Y. Sun.*

Japanese Swords in England.

People who are fond of rummaging about in curio shops are no doubt surprised at the cheapness of Japanese swords. They are cheap because there are plenty of them. When the natives threw off the native costumes and adopted European ways they took to European customs also, and seemed to acquire a distaste for many of the things that had been personal or house belongings. The short, needle-pointed, razor-edged swords worn by the damios and their retainers, though of the finest steel and beautifully ornamented, were discharged for English sabres and dress swords, and came to this country by thousands.

The price has advanced a little of late years, according to the condition of the blade, the richness of the lacquer on the scabbard, the ornamentation in gold and bronze on the handle; but plenty of good ones are still to be had. One odd freak of collectors is to break up the weapons, preserving only the bronze and iron guards, which are often decorated with flowers and figures of exquisite workmanship in gold and silver. One man in Liverpool is said to have dismantled over 500 swords for this purpose.—*The Dublin Herald.*

Love Your Business.

A man can no more be successful in a business he does not like than can a man be happy with a wife he does not love.

Enthusiasm is the power which impels men onward in any and every vocation. Without it men are lethargic. They will drift. But to pull against the tide they are as unable as they are unwilling.

Drifting, however, does not win the race, either in business or aquatic events. There must be the long pull, the strong pull, and the pull with vigor.

Men in business to-day have no easy task. There is a great deal to discourage and very little to encourage. There are foes within and foes without to contend against.

Under such conditions it is no wonder so many either fail altogether or eke out a mere existence.

The antidote for despair is enthusiasm, and the germ of enthusiasm is love for or pleasure in that business or vocation in which you are embarked.

Therefore, if you would succeed, get in love with your business.—*Exchange.*

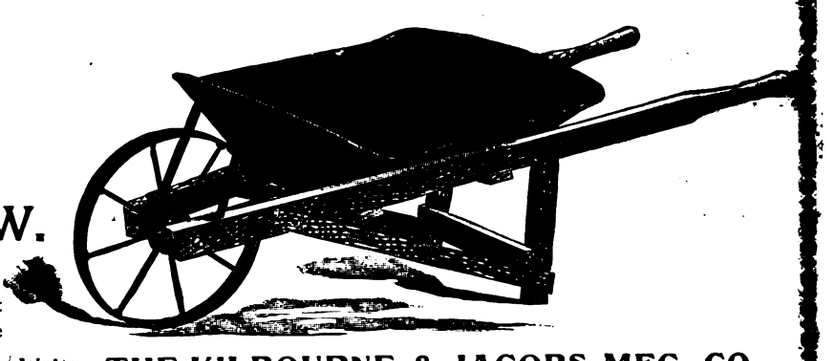
Situation Wanted.

TRAVELING salesman, hustler, 6 years' experience with largest house in Canada also city references. B. B., care HARDWARE, No. 143 Chambers Street, New York.

SHEET brass copper—Any firm engaged, or wishing to engage in this line, either as manufacturers or sales agents, can secure the services of a young man who has had 12 years' practical experience in the manufacture and sale of the above and kindred me als. Is at present employed, but desires a change. Address "SHEET METAL," care HARDWARE, No. 143 Chambers Street, New York.

PAN-AMERICAN R. R. BARROW.

With Round Steel Spoke Wheel. The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.



Write THE KILBOURNE & JACOBS MFG. CO.

COLUMBUS, O., U. S. A.

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If it's an ARCADE it's the best.

CAN YOU TELL WHICH?

One of these is a hand cut file.

One is the ARCADE—Weed Increment cut.



The irregular spacing and difference in height of the teeth which cause a hand cut file to bite the work with only a comparatively slight pressure of the workman's hand, are reproduced with scrupulous fidelity in the Weed Increment cut, and if there is any difference between the two makes it can be distinguished only by an expert, for in many shops the file hands use unmarked Arcade files under the impression that they are using hand cut.

If you use files we ask you simply to TRY a sample of Arcades at our risk, not at yours. If, on a fair trial, the Arcade Files do not cut faster and wear longer than any other file in the market, send them back.

If you want a fairer proposition than this, tell us what it is and we will meet you.



The Arcade File Works,

Established 1842.

SAMUEL W. ALLERTON, - - President.
C. C. CLARKE, - - - - Sec. and Treas.
A. WEED. - Vice Pres. and Gen. Manager.

New York: 97 Chambers Street.

Chicago: 118 Lake Street.

Works: Anderson, Ind.



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THE POPULARITY

Of our premium list, evidenced by the eagerness with which new subscribers are availing themselves of the opportunities offered, has compelled us to extend the time limit. We will therefore continue this offer until further notice to **NEW 1898 SUBSCRIBERS.**

ALL THE NEWS. **HARDWARE** HARDWARE EXCLUSIVELY.

Needs no introduction to the Hardwareman. He already knows what a valuab'e adjunct to his business this semi-monthly visitor is, with its reliable "Prices Current," its "Market Reviews" and its general news of interest to the Hardware trade.

FOR $1.00 We will send "HARDWARE" for one year, and ANY ONE of the following articles:



A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.

Huebsch's Year Book.

A 365-page Cloth Bound Diary—one page for each day in the year—4½x9 inches, bound in flexible cloth covers. Invaluable to merchants, manufacturers, bookkeepers, clerks, etc.

Indexed Coupon Books

representing one hundred dollars—to enable you to put your business on a cash basis—do away with pass books—to prevent bookkeeping errors. No disputes over accounts—no delinquent debtors or bad accounts. Used throughout the country now instead of credit system.



A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

FOR $1.25 We will send "HARDWARE" for one year and your choice of the following six premiums:

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. Made by one of the oldest fountain pen houses in America, and fully guaranteed. . . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. Huebsch's Year Book . . . . (large size), 6x9 inches, bound in flexible cloth, made to last. IT IS YOUR BUSINESS MEMORY, and will not fail you.

4. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

5. Half Dozen Photographs. . . . . Send us any photograph, with your name and address written plainly on the back, and we will return it to you together with six medallion copies of the original, mounted on celluloid, with a wire stand. We guarantee the medallions to be as good as the original. . . . .

6. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint, printed headings. This practical Price Book is in almost universal use. . . . . .

Address all communications to

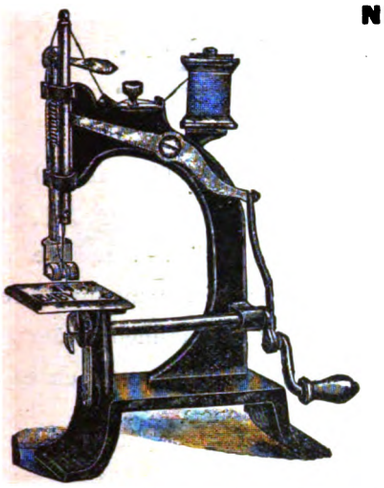
HARDWARE PUBLISHING CO., No. 143 CHAMBERS STREET, NEW YORK CITY.

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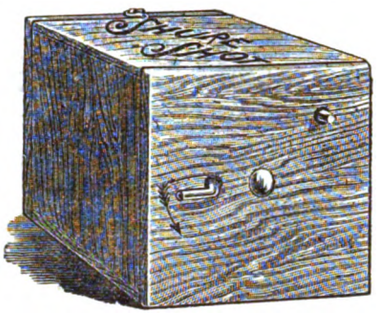
You Live

In hopes of always securing the greatest "helps" to your business. "*HARDWARE*" is a "help." It helps the dealer to buy economically, and helps the manufacturer to sell extensively. "*HARDWARE*" for one year, and any one of the following attractive premiums sent post paid for ***$1.50.*** This offer applies to

NEW 1898 SUBSCRIBERS ONLY.



A perfect Sewing Machine. "The Baby." It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



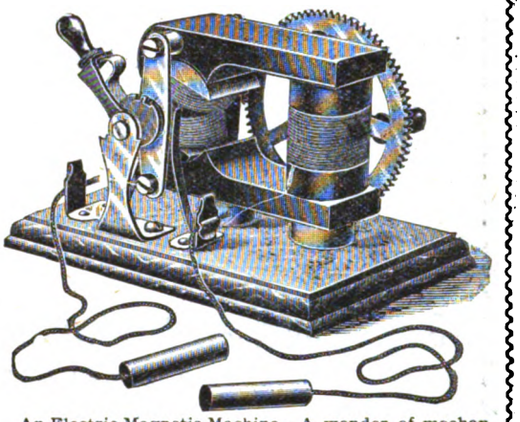
Just think—a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with higher-priced ones of which it possesses the best features, including an instantaneous shutter, adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewriter.—Will write 15 to 20 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine.—A wonder of mechanical perfection. Supersedes the old style medical batteries, and gives a stronger current without the expense of renewals. It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know, and we'll put it there. The first column shows the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.**

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
ART AMATEUR,	$4.00	$4.00
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CENTURY MAGAZINE,	4.00	4.25
CHAUTAUQUAN,	2.00	2.50
CHRISTIAN HERALD,	1.50	1.75
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ELECTRICAL WORLD.	3.00	3.25
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GODEY'S MAGAZINE,	1.00	1.50
GOOD HOUSEKEEPING,	2.00	2.50
HARPER'R BAZAR,	4.00	4.00
HARPER'S MAGAZINE,	4.00	4.00
HARPER'S WEEKLY,	4.00	4.00
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LADIES, HOME JOURNAL,	1.00	1.50
LIFE,	5.00	5.00
LIPPINCOTT'S MAGAZINE,	3.00	3.00
McCLURE'S MAGAZINE,	1.00	1.00
MUNSEY'S MAGAZINE,	1.00	1.50
NATION,	3.00	3.50
OUTING,	3.00	3.00
OUTLOOK,	3.00	3.50
POPULAR SCIENCE,	2.00	2.25
PUBLIC OPINION,	2.50	2.75
PUCK,	5.00	5.00
REVIEW OF REVIEWS,	2.50	2.75
RURAL NEW YORKER,	1.00	1.50
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SCIENTIFIC AMERICAN,	3.00	3.25
SCRIBNER'S MAGAZINE,	3.00	3.25
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TRUTH,	2.00	2.75
YOUTH'S COMPANION	1.75	New 2.00 Ren. 2.25

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OLD SUBSCRIBERS AND NEW

May take advantage of the following liberal offers:

1. "American Hardware Trades Reference Book," published by Thomas Publishing Co., with "HARDWARE" for one year, will be sent on receipt of **$1.50.** Those who are already paid subscribers to "HARDWARE" will receive the book, on sending **50c.** This book is a complete directory of the manufacturers of Hardware in the United States. Each manufacturer is classified under the name of every article he makes. The financial rating is given in each case; 8000 Names; 25,000 Headings.

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2. "Ladd's Discount Book," with "HARDWARE" for one year, for **$3.00** Single Index, and **$4.00** Double Index. Present subscribers will be credited for one year in advance. If you have to calculate discount this comprehensive work will save many times its price in time, trouble and mental strain. Its comprehensive character may be realized from the fact that it contains nearly 200 pages of positively accurate tables or more than 120,000 computations giving at a glance the net of any sum at all discounts from 1 per cent. to 95 per cent. together with a great range of combinations.

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3. "American Hardware Store," with "HARDWARE" for one year, for **$3.00.** The "AMERICAN HARDWARE STORE," containing 450 pages and 500 illustrations, is an exhaustive treatise on the most approved methods used by the successful merchants of this country to arrange, display and sell Hardware. It is edited by R. R. Williams, editor of the *Iron Age*, and published by the David Williams Co., of this city, at $3.00. By a special arrangement, we are enabled to combine "HARDWARE" with the book at the same price. Present subscribers will be credited for a year, in advance of their present subscription.

Fill out Order, and address as below:

ORDER BLANK.

HARDWARE PUBLISHING CO.,

NO. 143 CHAMBERS STREET, NEW YORK CITY.

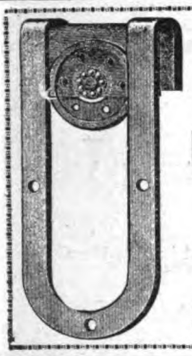
Gentlemen: Inclosed please find _____ dollar and _____ cents for which please send me postpaid "HARDWARE" for one year and _____ offered as a premium.

Name _____

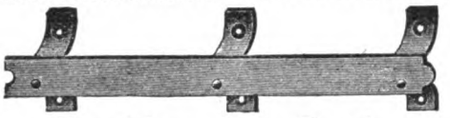
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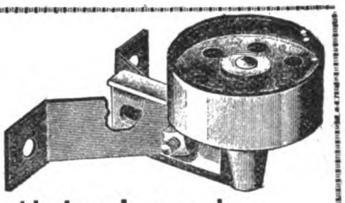


Steel Door Hangers, Nos. 0, 1 & 2.



Steel Barn Door Track.

No. 1 Stay Roller.



Malleable Iron Japanned.

No. 2, Stay Roller.



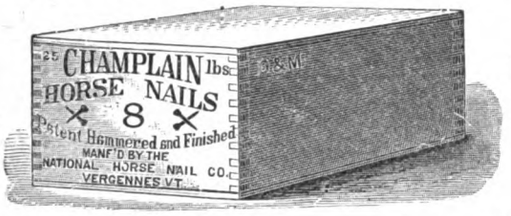
NEY MFG. CO.,

GET OUR PRICES. CANTON, OHIO.

Send for Price and Illustrated List of

CHAMPLAIN FORGED

ALL SIZES.
ALL PATTERNS.
ALL WARRANTED
SOLD EVERYWHERE.



Manufactured by
National Horse Nail Co.
Vergennes, Vermont.

J. C. McCARTY & CO., Agents, NEW YORK.

SICKELS & NUTTING CO.,

Wholesale Hardware and Manufacturers' Agents,

35 BARCLAY STREET and 40 PARK PLACE, NEW YORK.

Relay Bicycle Mfg. Co.,
Union Steel Screw Co.
Eagle File Co.
Walden Knife Co.

Cortland Door & Window Screen Co.
Warwick Tool Works (Picks and Mattocks).
North Wayne Tool Co.'s Scythes and Axes.

Also SICKELS, PRESTON & NUTTING CO., DAVENPORT, IOWA.

North, South, East, West. From all points come Armatures, Generators, Dynamos, Motors, Transformers Which We Repair and make GOOD AS NEW.

Write for esitmates on your work.



We pay the Freight one way.

The W. H. Elliott Electric Co., GENERAL ELECTRICAL REPAIRERS,

Fourteen Years' Practical Experience. 14, 16 and 18 Middle St., CLEVELAND, OHIO, U. S. A.

REGISTER GOODNESS

Made by skilled mechanics. Men who know how they should be. No bad ones here. Every one guaranteed right. . . . . .

7 x 10 Black Japanned, 55 cents each.
8 x 10 Black Japanned, 55 cents each.
9 x 12 Black Japanned, 70 cents each.
10 x 12 Black Japanned, 80 cents each.

. . . All Sizes In Stock. . . .

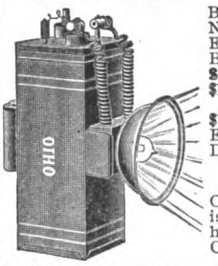
L. D. BERGER'S

Tinners' and Roofers' Supply House,

59 N. 2nd St., PHILAD'A, PA.

WE UNDERSELL ALL.

It gives a Light that's White and Bright,
And two cents is the cost per night.



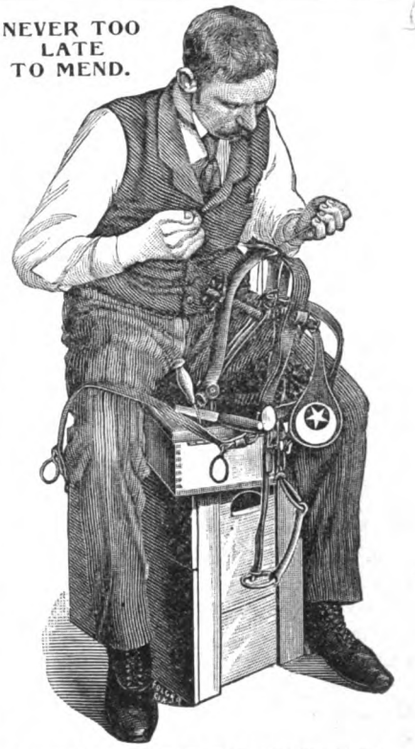
Bicycle Elec. Lights.	$4.00
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
Battery Fan Motors.	5.00
$8 Medical Batteries.	3.95
$100 Bicycles, best make.....	39.00
$1.25 Bicycle Bells....	.50
Electric Bells, finest.	.30
Dry Batteries, best..	.25

Discount to Dealers.

Our Bicycle Electric Light is the best thing that ever happened. . . . . Catalogues free.

OHIO ELECTRIC WORKS, CLEVELAND, O.

NEVER TOO LATE TO MEND.



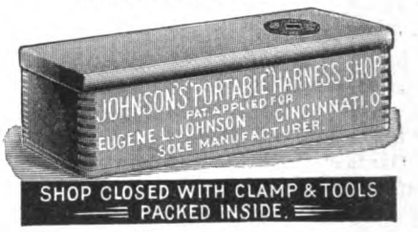
JOHNSON'S PORTABLE HARNESS SHOP

Is a complete Harness Repair Equipment. The tools and supplies are of standard quality, the seat is a varnished chest (18x8x5) and contains the outfit when not in use. SO SUBSTANTIAL as to last a lifetime. SO PRACTICAL as to be an ECONOMIC NECESSITY to horse owners! Your customers want 'em! Jobbers sell 'em!

EUGENE L. JOHNSON, Sole Manufacturer, Cincinnati, O., U. S. A.

J. C. McCarty & Co., N. Y. Agents, New York.

CORRESPONDENCE SOLICITED.



SHOP CLOSED WITH CLAMP & TOOLS PACKED INSIDE.

PLEASED with RESULTS.

John N. Hager, Fort Atkinson, Wis. [*Fork, Shovel, Rake and Hoe Brackets*]: Am well pleased with the results of my advertisement in HARDWARE.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Lancaster, Ohio,—Hall & Shell.

Vineyard Haven, Mass.—Willis Hancock.

Viroqua, Wis.—C. Kuebler & Co.

Changes and Improvements.

Alva, Okla.—Noble & Case, Hardware, succeeded by H. E. Noble.

Ayr, Neb.—T. J. Edgington has bought back his old Hardware store and will commence to run it in his old style within a short time.

Beatrice, Neb.—Hogan & Burch, Hardware dealers, have decided to go out of business here on a dissolution of partnership.

Blooming Grove, Tex.—F. W. Caruthers, Jr., has succeeded Caruthers & Smith, Hardware.

Caribou, Me.—The Houghton Hardware Co. have leased the office recently occupied by L. K. Cary & Son, in the Fessenden Block, and moved into their new quarters.

Chelmsford, Mass.—E. E. Smith has been appointed head clerk at the extensive establishment of the Thompson Hardware Co., in place of Mr. Cook, who was obliged to resign, by reason of poor health.

Clarion, Pa.—S. J. Burgoon, formerly of this place, but lately of Brookville, has purchased the stock of J. G. Morgan & Co., of Clayville, and will put in a full stock of Hardware.

Duluth, Minn.—The Kelly Hardware Co. has bought the Glass Block store on Superior Street.

Florence, S. C.—L. S. Welling & Co., Hardware merchants of this city, are making considerable improvement to the interior of their extensive store in Dargan Street.

Foster, Iowa.—R. M. Bixby has moved his Hardware store to the Miller Buiding on Main Street.

Gardner, Mass.—G. R. Lowe and William Barrett have dissolved partnership in the Gardner Hardware Co., Mr. Barrett continuing the business.

Garwin, Iowa.—The Schneckloth Hardware store, sporting goods, etc., stock purchased by W. H. Chilson, who will continue the business under his own name.

Geneva, Ohio.—The Hardware store of A. F. Miller & Co. has been purchased by F. H. Nearing and Frank Biggar.

Herkimer, Kan.—F. A. Moser, Hardware, succeeded by Christian Huber.

Hickory, N. C.—Ingold & Johnson, Hardware, succeeded by F. B. Ingold.

Honesdale, Pa.—Hiller & Holles have sold their Hardware establishment, building and contents, to the firm of Dodge & Erk, who are now in possession.

Jesup, Iowa.—Pray, the Hardwareman, has sold out, and gives possession the first of March. The purchaser is from Spirit Lake.

Kendrick, Idaho.—McCrea Bros. & Co., Hardware merchants, have a force of men at work building a warehouse.

LaFayette, Ind. — The Falley - Patton Hardware Co. will remove to No. 97 Columbia Street, Gagen Block.

Lebanon, Tenn.—J. M. Jennings & Co., Hardware and furniture dealers, are building a large warehouse on College Street.

Lime Springs, Iowa.—S. R. Gray, Hardware, succeeded by A. E. Marsh.

Marion, Ind.—Sims, Richards & Richards, Hardware, etc., succeeded by Sims & DeLeon, Russiaville.

Medicine Lodge, Kan.—Noble & Case, Hardware, succeeded by H. H. Case.

Milford, Mich.—H. J. Lee, Hardware, A. Lee has purchased an interest in the business.

Milford, Conn. — The harness shop on River Street is now in charge of Walter M. Irving, who will keep a full line of Hardware and builders' supplies.

Monroe, Neb.—Matson & Smith, Hardware, etc., succeeded by Smith & Gates.

Montreal, Can.—Johnston, Copping & Co., Hardware, dissolved.

North Wilkesboro, N. C.—Absher Hardware Co. purchased entire stock of N. N. M Allen.

Opelika, Ala.—Brewer & Ware, Hardware, etc., reported to have dissolved partnership.

Pinckney, Mich. — George Reason, Jr., Hardware, has sold half-interest in business to Will Sheehan, and the new firm is now conducting business under the name of Reason & Sheehan.

Pontiac, Mich.—The Pontiac Hardware Co., C. B. Pittman has sold stock to Zimmerman Bros. & Alger.

Portsmouth, Ohio.—H. D. Oberling and his brother have rented the Farmer store on Gallia Street and are now putting in shelving.

Potsdam, N. Y.—Chas. Ashley, of Ogdensburg, has purchased at sixty cents on the dollar the stock of the Ashley Hardware & Iron Co., which made a general assignment a short time ago.

Quitman, Mo.—J. G. Cordell, Hardware and agricultural implements, sold to C. E. Dack.

Rahway, N. J.—Ex-Councilman J. Mead has gone into the Hardware business again. His new store is located at Main and Lewis Streets.

Sand Beach, Mich.—A. Gourley, Hardware, stock purchased by H. W. Warnica, who is now the sole proprietor.

Sioux Falls, S. Dak.—E. J. Tabor has purchased the Hill Hardware stock of the State Banking & Trust Co.

Toulon, Ill.—D. J. Davis, who has been at the head of a leading Hardware firm here, now known as Davis & Fell, has retired and is succeeded by his son, A. E. Davis, the firm name remaining unchanged

Waldron, Mich.— Will Hudson, Hardware, has sold his business.

Wheeling, W. Va.—Frank Colbert has purchased an interest in the Hardware Supply Co. from Frank Berry.

Business Embarrassments.

Bellaire, Ohio.—J. J. Kelly, a Hardware merchant of this city, has made an assignment to C. C. Kelly. Liabilities and assets unknown.

Jackson, La.—C. Daley & Son, Hardware dealers and tinners, have assigned, W. F. Smith being named assignee. Liabilities, $1900; assets, $771.

Rockaway, N. J.—The Hardware store of George E. Bunnell has been attached by the sheriff in favor of Mrs. Sarah Kaufman.

Salt Lake City, Utah.—The Geo. M. Scott Hardware Co., the oldest Hardware firm in the intermountain West, have filed a deed of assignment. The liabilities are $198,751. The assets at face value aggregate $149,940.

St. Louis, Mo.—The Hynson Hardware Co., No. 204 North Sixth Street, have failed. Creditors with claims aggregating $23,150 were preferred first and then the concern made a general assignment.

Burglaries in Hardware Stores.

Hearne, Tex.—Adams Hardware Co., revolvers.

Keyport, N. J.—T. S. R. Brown, $100.

Oakfield, N. Y.—A. B. Rathbone, $150.

Mt. Pleasant, Pa.—T. C. Patterson, $200.

Syracuse, N. Y.—Reuben Woods' Sons Co., $300.

Washington, D. C.—The branch store of D. N. Walford, No. 909 Pennsylvania Avenue, N.W., was burglarized on the 10th inst. of a large number of fine pocket-knives and revolvers. An entrance was effected from the roof. All goods were marked with Mr. Walford's cost mark engraved on large blade.

Recent Fires.

Akron, Ohio.—Pouchot, Hunsicker & Co., damaged by fire. Loss, $10,000.

Augusta, Ohio.—John Thomas, Hardware, damaged by fire. Loss, $500.

Bridgeport, Conn.—Bridgeport Hardware Co., damaged by fire. Loss, $4000.

Delaware, Ohio. — Pumphrey & Armstrong, Hardware, damaged by fire to the extent of $200; fully insured.

Gainesville, Tex.—Stevens, Kennerly & Spragins, destroyed by fire. Loss, $65,000; insured for $32,000.

Hoffman, Minn.—J. Wild Hardware Co., destroyed by fire. Loss, $5000; insured for $2000.

Hot Springs, S. Dak.—L. S. Ellsworth, Hardware, damaged by fire. Loss, $500; fully insured.

Irwin, Iowa.—L. C. Shepard, Hardware, destroyed by fire. Loss, $500; insurance, $200.

Ludell, Kan.—Scow Hardware Co., destroyed by fire.

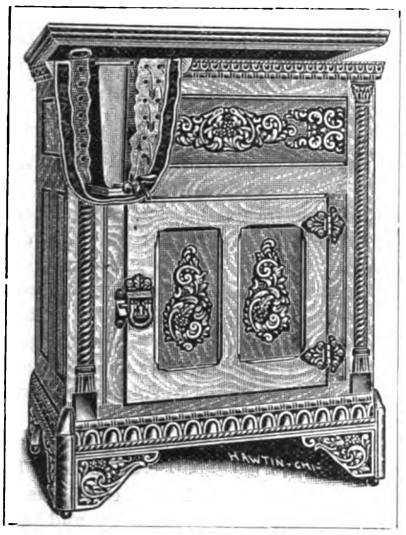
Plainfield, Ill.—Hays & McCreery, Hardware, destroyed by fire.

Rushton, Minn.—Quested & Verne, Hardware, destroyed by fire. Loss, $2800.

Somerset, Ky.—Girder Bros., Hardware, destroyed by fire. Loss, $30,000.

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Buy the Gurney Patent Refrigerator. It costs no more than imitations claimed to be "*Made like the Gurney.*"

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Also Mfrs. of La Belle and Imperial Refrigerators. Capacity 150 Refrigerators per day.

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NOT THE FLIMSY KIND,

but reliable taps for a little money. . .

GET OUR PRICES.

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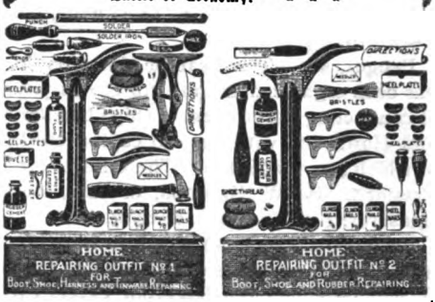
PLYMOUTH, OHIO.

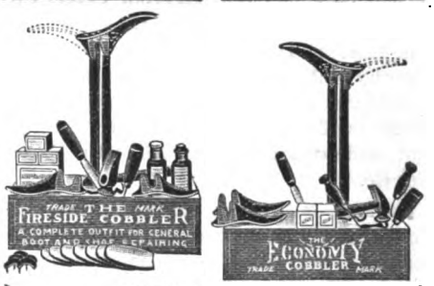
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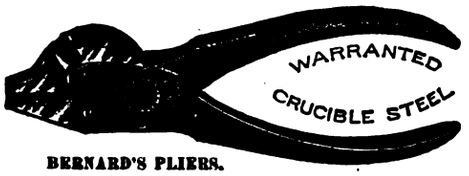
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PERCUSSION CAPS

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TAPE MEASURES,

EYELETS AND SMALL BRASS WARES OF EVERY DESCRIPTION.

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page. News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Allentown, Pa.—The Lenox Mfg. Co., of Allentown, has been incorporated with a capital stock of $35,000. The incorporators are: John D. Shoemaker, J. Sidney Heilig, Oliver Williams, Jacob Roberts and Edwin Thomas. The object is manufacturing sewing machine attachments and other machine devices and articles of iron, steel, brass and other metals, commonly known as light Hardware tools and appliances.

Austin, Tex.—Rose Mfg. Co., of Dallas, Tex., with a capital stock of $50,000. The purpose of this corporation is the manufacture and sale of Hardware. The incorporators are P. A. Norris, J. E. Rose and J. D. Crawford.

Bangor, Me.—The Swanton, Jameson Co. has been organized at Bath for the purpose of conducting the business of ship chandlery and Hardware, with $25,000 capital stock, of which $500 is paid in. The officers are: President, H. W. Swanton, of Bath, Me.; treasurer, J. C. Jameson, of Bath, Me.

Bridgeport, Conn.—A new firm is to commence business in this city in a short time. It will be called the Excelsior Cooler Co. The large frame building opposite the Bullard Machine Tool Co.'s factory on Railroad Avenue will be used. The new company has purchased the property from the estate of Peter Condon. It has been improved and made over to suit the use of the Excelsior Co.

Camden, N. J.—The Edwards Sad Iron Co., with a capital stock of $100,000. The company will manufacture implements of metal. The corporators are Thomas Cross Edwards, Joseph L. Harbinson, Harry L. Day and George M. Thomson, of Philadelphia, and James Finley, of Camden, N.J.

Chicago, Ill.—Universal Sharpening Machine Co. Capital stock, $30,000. Manufacture tools, etc. Incorporators: William A. Vincent, Michael F. Sullivan and Hollis F. Dougherty.

Detroit, Mich.—The Michigan Heater Co. has been incorporated by F. Zannoth, A. Knebusch, H. Brehm and others. Capital stock, $15,000.

Enfield, Conn.—The Norman - Corthell Mfg. Co. has been organized, to deal in machinery, tools, Hardware, etc., with a capital of $25,000, in 250 shares of $100 each, $5000 paid in.

New York, N. Y.—George W. Church Co.; to manufacture machinists' supplies. Capital stock, $10,000. Directors: George W. Church, William T. Church and W. M. Kinder, Jr., New York City.

New York, N.Y.—The Johnson & Brother File Co., with a capital stock of $20,000. The company is to manufacture files and other Hardware. The corporators are William H. Johnson and Charles W. Johnson, of Newark, and Robert Stewart Miller, of Orange, N. J.

New York, N. Y.—The Sun Vapor Stove Co. has been incorporated by E. G. Mummery, W. G. Hastie, R. S. Sutton and N. S. Wright, of Detroit, to manufacture vapor stoves, with a capital stock of $100,000.

Ocala, Fla.—Notice has been given that application has been made to the governor for a charter of incorporation for the Lightning Hoe Co. of this city. The names of the incorporators are Edward Holder, Charles Munroe Brown, and Decatur W. Davis, all of this place. The capital stock is $30,000, represented by 300 shares of the par value of $100 each. The company will at once erect a manufacturing plant in this city for the manufacture of this Lightning hoe that has been invented and patented by C. M. Brown.

St. Louis, Mo.—St. Louis Aluminum Casting Co., capital stock, $25,000. Incorporators: Louis J. and Theo. E. Crecelius. Gustav A. Plens and others.

Changes and Improvements.

Auburn, N. Y.—The business of making agricultural implements formerly conducted by G. W. Stevens & Co., is about to be transferred to Marinette, Wis., where local capitalists have raised $300,000 to promote the enterprise.

Detroit, Mich.—The plant and machinery of the defunct Schoolcraft Table Co. have been sold to local parties, who propose to manufacture refrigerators.

Dubuque, Iowa.—The Norwegian Plow Works, which went into the hands of a receiver a year or more ago, has been started up again under a new management, of which J. R. Deming, of the Second National Bank of Dubuque, is the head.

Elwood, Ind.—The Iowa Farming Tool Co., employing 200 men and manufacturing all kinds of farming implements, will remove its plant from Ft. Madison, Iowa, to this city.

Peru, Ind.—The Indiana Mfg. Co., of this city, is enjoying a boom, the employees working eleven hours a day. Among the last orders received by the company is one for 4000 refrigerators.

Randolph, Vt.—It is understood that the Porter Screen Co., of Winooski, will not release the screen mill here after March. They are intending to make additions to their mill property there and have all of the business close together. This will be quite a loss to the place, as the mill employs about one hundred hands, who will be thrown out of work.

Reading, Pa.—The Reading Stove Works, one of the most important industries in this part of the State, have resumed operations, giving employment to many men. This is the first time in a long while that this plant has been in operation with a full complement of employees in every department.

Taunton, Mass. — The Taunton Iron Works and the Weir Stove Co. have resumed operations.

Miscellaneous.

Ansonia, Conn.—The Winsted Mfg. Co., which makes scythes and other small farm implements, received a few days since an order from one customer of 195 dozen scythes. That is 2340 scythes shipped to one dealer. It took all the scythes the company had on hand to fill the order. It goes to show, however, that there are still places in this country where the mowing machine has not yet succeeded in running the scythe out of business.

Cincinnati, Ohio.—The big increase of orders from Japan and Russia that the Bickford Drill & Tool Co. has received has compelled it to increase its capacity, and in consequence it has given a very healthy order to the Bradford Mill Co. for needed machinery.

Cincinnati, Ohio.—The Davis & Egan Machine Tool Co. have begun the work of preparing the new quarters in Covington for occupancy. President Charles Davis said they would probably begin operations in the Covington branch at the end of sixty days.

Contoocook, N.H.—O.P. Berry has manufactured 1300 dozen axe handles during the past five weeks.

Hamilton, Ohio.—At the annual meeting of the Niles Tool Co. the old board of directors were re-elected, as follows: Thomas T. Gaff, J. D. Parker and Miles T. Watts, of Cincinnati; Alex. Gordon, R. C. McKinney, James K. Cullen, Geo. T. Reiss, of Hamilton; Wm. McKinney, of Pittsburg, and Colonel Burke, of Cleveland. The board organized by electing Alex. Gordon, president; J. D. Parker, vice-president; J. K. Cullen, secretary; R. C. McKinney, treasurer and general manager, and George T. Reiss, superintendent.

Kenton, Ohio.—The manufacturing of toys by the Kenton Hardware Mfg. Co. has become a great feature. They have begun the manufacturing of toy pistols and gardening tools and now have more orders in than they can fill in two months.

Moline, Ill.—The Moline Plow Co. is having such a rush of orders that it is necessary to begin running extra hours. The fitting department began running twelve hours a day last week, from seven in the morning until eight o'clock at night.

New Britain, Conn.—A portion of the lock room of the P. & F. Corbin Co. works has received a raise of ten per cent. in wages.

New Haven, Conn. — The Marlin Fire Arms Co. have begun to work on a twelve-hour schedule, owing to the fact that there is considerable increase in contract work and quite a large demand for firearms.

Utica, N. Y.—The board of directors of the Savage Arms Co. met, February 8th, at their office in this city. Routine business occupied the attention of the board mainly. In addition, an order was passed for the procurement of additional machinery for the temporary factory on Broad Street.

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Will take the chill off a room in a few minutes.



No Smoke, No Odor, or Chimney.

The same this year as in previous years.

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2 feet 3 inches high.

Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

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NEW YORK OFFICE OF

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THE BARNES TOOL CO. E. LOUD MFG. CO.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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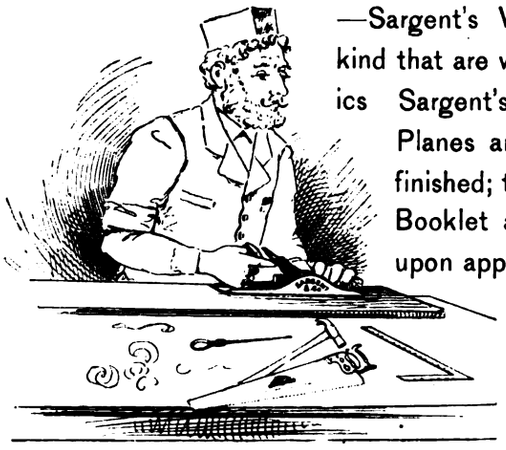
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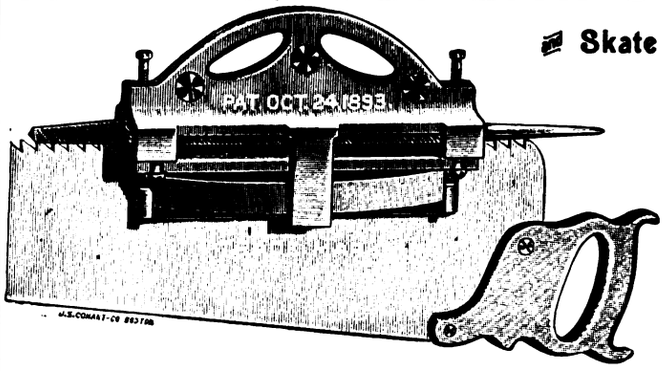
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—Sargent's Warranted Planes—the kind that are wanted by good mechanics Sargent's Wood Bottom and Iron Planes are well made and nicely finished; they are first-class goods. Booklet and prices will be sent upon application.

Sargent & Co.,
New Haven, Conn.
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Philadelphia
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THE PERFECT SAW JOINTER



Skate Sharpener.

Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

"Diamond" Bicycle Wrench.

Length over all - - 5½ in.
Opening bet. Jaws 1⅛ in.
Weight - - - - 6 ozs.



This wrench is Drop Forged from a good quality of steel, Nickel Plated, Hardened Jaws and is very quick acting.

Secure our prices. . .

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It will pay you to handle our Roofing Cement. Put up in fancy cans, 3, 5, 10, 25 and 100 lb. cans. Write

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Made in all colors.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Beaufort, Ont.—The Knowles Bicycle Co. has been incorporated with a capital stock of $50,000.

Carlstadt, N. J.—Walter Macher will open a bicycle establishment in a few days.

Charleston, S. C.—The Southern Cycle Supply Co. will establish a factory for the manufacture of bicycles. Capital stock, $25.000.

Charlestown, W. Va. — The Ramsey Swinging Pedal Co., of Philadelphia, Pa., has been incorporated by the Secretary of State here; to deal in bicycle pedals. Incorporators are. L. H. Hall, R. H. Ramsey, Charles C. Warwick, George C. Stevens and L S. McPherson. Capital stock subscribed is $15,000, with the privilege of increasing to $300,000.

Chester, Pa.—Benjamin Levis is preparing to open a bicycle store for the manufacture of Levis' special. He has engaged the store at the corner of State and Orange Streets, and expects to open out April 1st. The wheel Mr. Levis intends to manufacture will be placed upon the market at $50.

Chicago, Ill.—Chicago Bicycle Rack Co. Capital stock, $50 000. Incorporators: J. McFarland, C. C. Spotswood and J. W. Tibbits.

Chicago, Ill.—The Cycle Components Co. has been incorporated to manufacture bicycles and bicycle supplies. Capital stock, $5000.

Chicago, Ill.—The Davis Machine Co. has been incorporated to manufacture bicycles. Capital stock, $50,000.

Ft. Wayne, Ind.—Marion Black and Will Peltier will start in the bicycle business. They have rented the room on West Wayne Street which was occupied by the Singer Co.

Hamburg, Pa. — The Wilhelm Bicycle Works has been incorporated at the State department with $50,000. The incorporators are: W. I. Wilhelm, A. Grant Welser, C. J. Tobias and H. D. Strunk, Harrisburg, and G. B. Stevens, Reading.

Little Rock, Ark.—The Waldo Wheel Co. has been incorporated.

Milwaukee, Wis —City Engineer Benzenberg is going into the bicycle business. The Milwaukee Patent Puncture-Proof Tire Co., with $40,000, was incorporated recently by him and C. J. Fox and William D. Halsted.

Montreal, Can.—William E. O'Brien is doing business as a bicycle dealer, as O'Brien Bros.

New York, N. Y.—John S. Leng's Sons & Co., bicycle supplies, etc., reported to have formed limited partnership.

Ottawa, Ont.—A new bicycle company is seeking incorporation to do business in Brantford under the name of the Knowles Bicycle Co. The capitalization is to be $50,000.

Passaic, N. J.—The Passaic Cycle Co. is the name of a new firm which has opened a store at No. 270 Main Avenue. Thomas Leeper, of Rutherford, is manager. The firm will sell Orient and Lyndhurst wheels, and deal in general sporting goods. Mr. Leeper is the rider who rode the famous hundred-mile road race with Milton Brown two years ago.

Sacramento, Cal. — Columbian Supply Co.; formed to deal in sewing machines, bicycles, etc. Principal place of business, San Francisco. Directors: Alfred Fuhrman, Thomas J. Neslan, Carl W. Muller, John Heenan, P. B. Donahor, all of San Francisco. Capital stock, $100,000. Stock actually subscribed, $250.

Springfield, Ill. — Standard Pneumatic Tool Co., Chicago. Capital stock, $50,000. Incorporators: C. A. Williams, Frank T. Kinnare and Hugh J. Kearns.

Springfield, Ill.—The Mead Cycle Co., of Chicago. Capital stock, $100,000. Incorporators: James L. Mead, Frank Johnson and Dwight Lawrence.

Springfield, Ill.—The Springfield Novelty Co. has been incorporated to manufactnre bicycles, etc. Capital stock, $10,000.

Syracuse, N.Y,—Stearns Bicycle Agency. Capital stock, $6000. Directors: Edward C. Stearns, H. E. Maslin and William A. Doubleday, Syracuse.

Toledo, Ohio.—A new bicycle will be placed on the market in a few weeks by the Gem Light Mfg. Co., which has taken out papers of incorporation. The company consists of Deputy Prosecuting Attorney William G. Ullery, Robert B. Pate, E. B. Wheeler, J. W. Baldwin and B. Grantham. The capital stock subscribed is $5000.

Washington, D. C.—Gaither & Cissel, H and Ninth Streets, will manufacture bicycles.

Washington, D. C.—Saks & Co., clothing, have taken the agency of the Spaulding bicycle and sporting goods, and will remove the stock now in the Pennsylvania Avenue (Spaulding) store, to their own building at an early date.

Changes and Removals.

Champaign, Ill.—R. C. Lowery has sold out his bicycle business on Neil Street to E. M. Nicolet. The business will be conducted under the firm name of Nicolet & Co., with J. G. Nicolet as manager.

Chicago, Ill.—The Excelsior Supply Co., bicycles, Nos. 276 and 278 Wabash Avenue, corner Van Buren Street, store has been remodelled, and they have added a complete line of bicycle sundries. Among the latest addition to their line of wheels is the Orient, made by the Waltham Mfg Co., of Waltham, Mass.

Fond du Lac, Wis.—O. H. Musgat, bicycles, etc., admitted John Guepe.

Hackensack, N. J.—Harry Fosdick has formed a partnership with H. W. Fishbaugh in the bicycle business.

Holyoke, Mass.—Lynch & Walsh, bicycles, reported to have dissolved partnership.

Milwaukee, Wis.—F. J. Green has been elected secretary of the League Cycle Co., to succeed A. F. Schult, resigned. Mr. Schult has become manager and secretary of the Milwaukee Cycle Mfg. Co.

New York, N. Y.—Hodgman Rubber Co., manufacturers of a large line of rubber goods, including cycle sundries, have removed from No. 461 Broadway to No. 593 on the same thoroughfare, between Prince and Houston Streets.

Pittsburg, Pa.—The Duquesne Mfg. Co., manufacturers of the Duquesne bicycle, W. L. Abbott, president, commenced the erection of a plant at Liberty Avenue and Twenty-sixth Street.

Washington, D. C.—Black Mfg. Co., of Erie, Pa., have removed from No. 1146 Connecticut Avenue to No. 1015 Fourteenth Street, N.W.

Washington, D. C.—The Enterprise Cycle Co. has gone out of the bicycle sales business, and will this year conduct only repair shops and a rental department.

Washington, D. C.—William Gettinger, bicycles, has removed his bicycle establishment to No. 813 G Street.

Recent Embarrassments.

Chicago, Ill.—Szabkliski & Maniurka, bicycles, etc., reported to have appointed receiver.

Madison, Wis.—D. D. Warner Co., manufacturers of bicycles, reported to have made an assignment.

Milwaukee, Wis.—The Milwaukee Mfg. Co., bicycle manufacturers, have made an assignment.

Minneapolis, Minn.—Lautner, Peterson & Uesevich, bicycles, reported to have made an assignment.

Vancouver, B. C.—J. J. Woods, bicycles, reported to have made an assignment.

Recent Fires.

Chicago, Ill.—Barnum Mfg. Co., pedals, destroyed by fire.

Chicago, Ill.—Wilson Davy Mfg. Co., bicycles, destroyed by fire.

Fort Worth, Tex.—The Fort Worth Cycle Co., factory destroyed by fire.

Scranton, Pa.—Clarence M. Florey, bicycles and sporting goods, stock destroyed by fire at a loss of $8500; insured for $7500.

Miscellaneous.

New York, N. Y.—The stockholders of the National Board of Trade of Cycle Manufacturers held their annual meeting on January 19th. A committee was appointed to take steps to urge the government to remove the duty on German bicycles. The following officers for the ensuing year were chosen: President, C. S. Dickerman, of Chicago; vice-president, R. L. Coleman, of New York and G. H. Day, of Hartford, Conn. Executive Committee: R. L. Coleman, G. H. Day, R L. Garford, Joseph McGee and R. P. Gormully.

Washington, D. C.—Pope Mfg. Co. will enlarge on sundries.

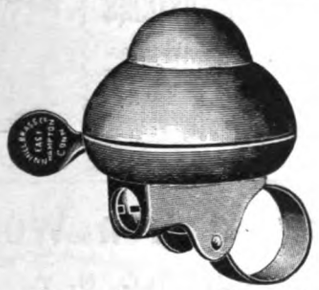
Washington, D. C.—The U. D. Stebbins Mfg. Co. is seeking a suitable location for an agency.

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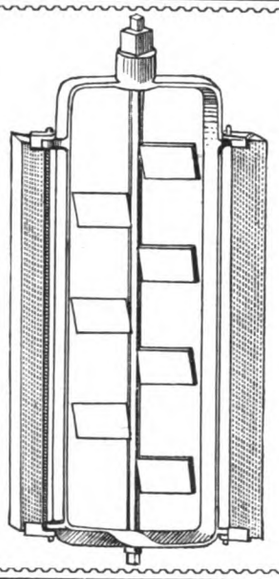


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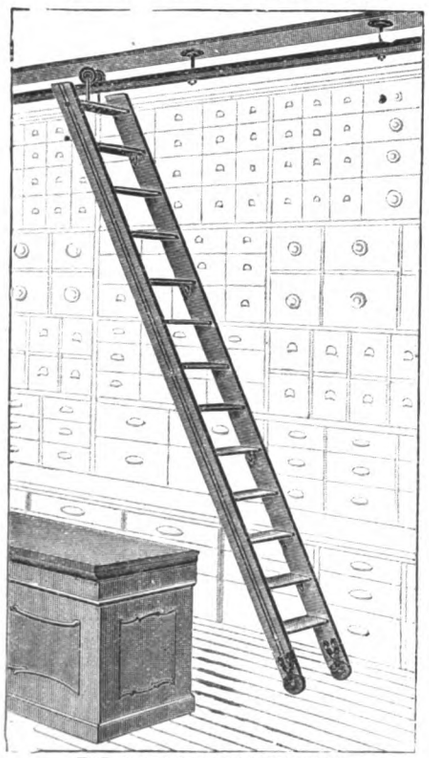
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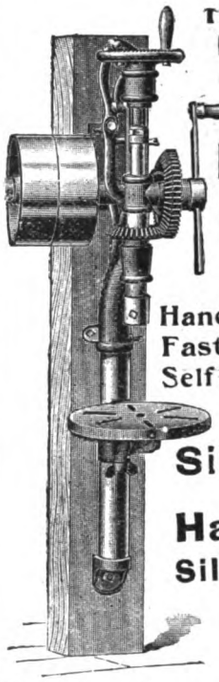
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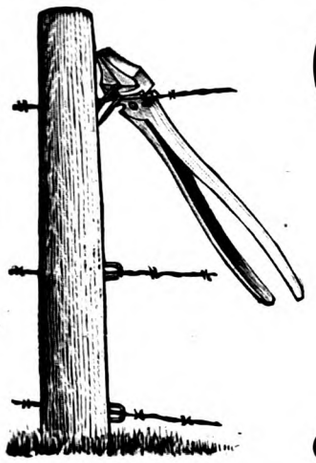
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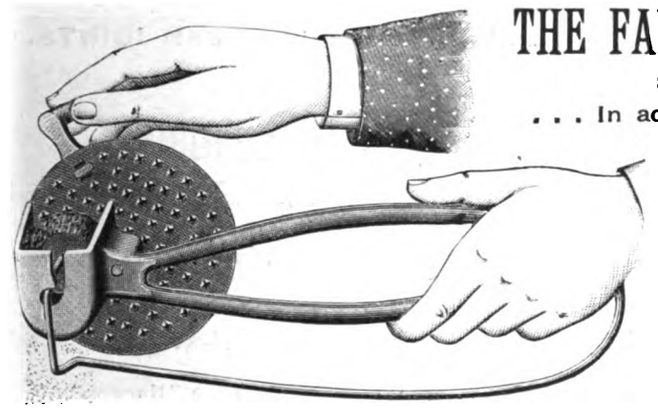
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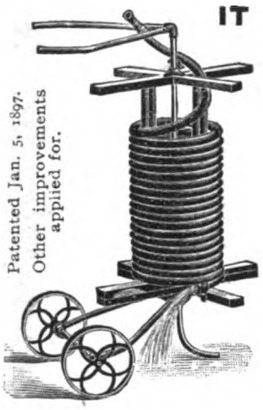
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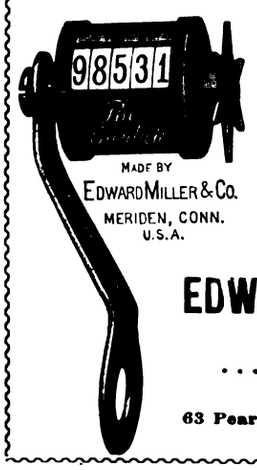
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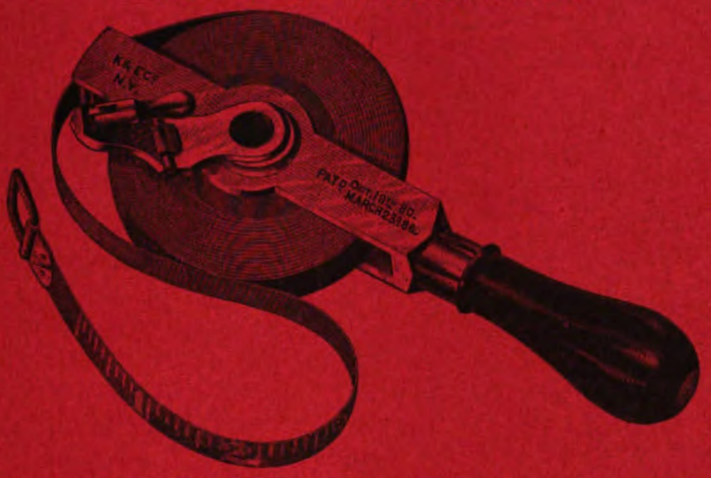
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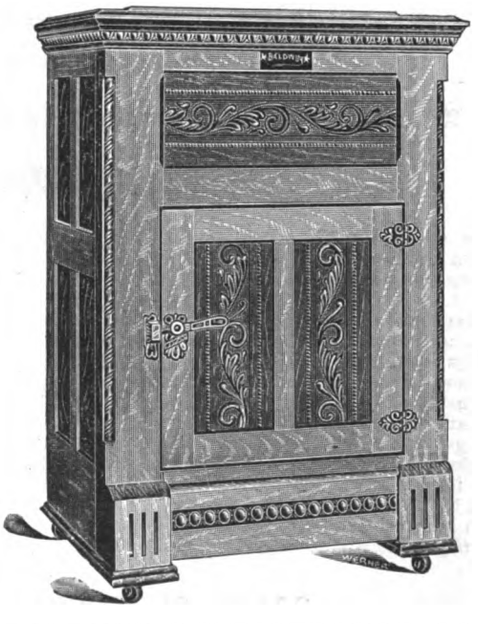
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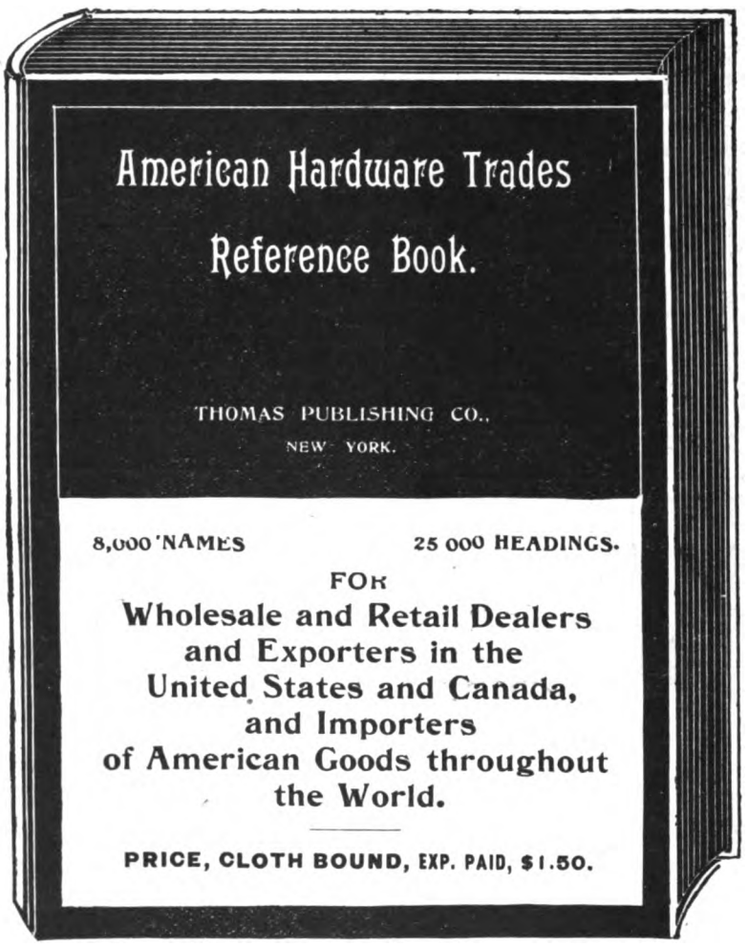
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Classification.—By our method of classification, we index every manufacturer under every article manufactured. We name some manufacturers under as many as 300 headings. We make no charge whatever for any number of headings required to completely represent every manufacturer. The book gives nearly 25,000, fifty times as many as any other publication gives to these trades. We do not use general headings, such as are used in ordinary directories, as for instance: "Hardware," "Agricultural Implements," "Vehicles," "Plumbing Goods," etc., but state the specific article and the special kind of article, and for what purpose used, as for instance: "Door Locks," "Bicycle Locks," "Refrigerator Locks," "Gang Plows," "Sulky Plows," "Swivel Plows," "Ditching Plows," "Brass Faucets," "Wooden Faucets," "Beer Faucets," "Steam Heating Boilers," "Combination Steam and Hot Air Boilers," "Air Valves for Radiators," etc., etc., throughout the 25.000 headings, naming every article, every special kind of article needed by these trades. It enables the user to instantly find exactly what is wanted. Nothing like this minute classification has ever been attempted before.

Ratings.—The financial rating of every manufacturer is given.

SAVES SUBSCRIBERS 100 TIMES ITS COST.

THOMAS PUBLISHING CO., SOLE PROPRIETORS, 40 Broadway, New York.

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Special to our Subscribers.

WE have contracted with the Thomas Publishing Co. for 10,000 copies of the 1898 American Hardware Trades Reference Book, which we are offering to the trade of the United States, with a year's subscription to "Hardware" for $1.50; the price of the book alone. . . . . .

« « « ◆ » » »

Those who are already paid subscribers to "Hardware" may take advantage of this offer by sending 50 cents. . .

« « « ◆ » » »

We do not agree to hold this offer open for any specified length of time, as it will be impossible to furnish the Book alone at less than $1.50 after these 10,000 are taken.

SEE OPPOSITE PAGE.

Hardware Publishing Co.,

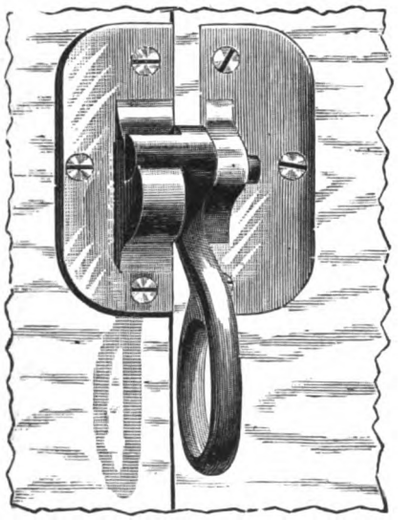
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The CONROY PATENT

Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

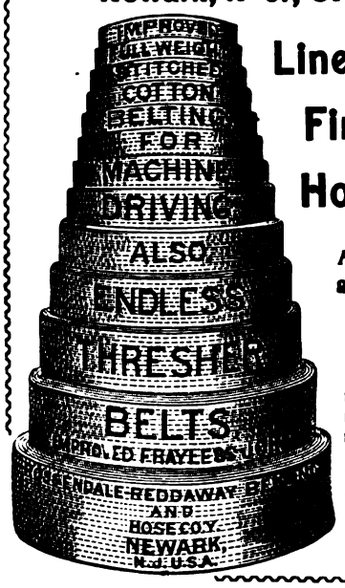
P. J. CONROY,

Beware of Infringements. Paschall, Phila.

THE

ROSSENDALE - REDDAWAY BELTING & HOSE CO.,

Newark, N J., U. S. A.



Linen Fire Hose

All grades.

Made to meet requirements of Underwriters.

Benefits Greater Than Ever Before.

Nicholson File Co., Providence, R. I., [*Files*]: We are pleased to state that the results thus far obtained from our advertisement in the columns of *Hardware* fully justify our having resumed our contract with you. We feel that the benefits which we are securing from your paper are **greater than ever before.**

FIT FOR THE TABLE OF A KING OR QUEEN.

THE

ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

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Factories: HARTFORD, CONN. NORWICH, CONN. WALLINGFORD, CONN. TAUNTON, MASS.

WM. ROGERS MFG. CO.,

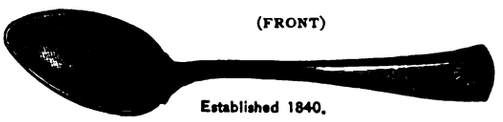
Salesrooms: HARTFORD, CONN.

Highest Grade of

Silver Plated Ware

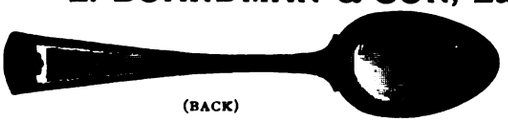
In Spoons, Forks, Etc.

Manufactured by



Established 1840.

L. BOARDMAN & SON, East Haddam, Conn.



Also Nickel Silver Flat Table Ware and Britannia Spoons.

Write for Catalogue and Prices.

AGENCY **JOSEPH RODGERS & SONS, LTD.**

THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when

THE VERY BEST

can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF

JOSEPH RODGERS & SONS, LTD.,

SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS, TABLE CUTLERY, SCISSORS,

RAZORS, HUNTING and BOWIE KNIVES POCKET CUTLERY, &c.

Its Corporate Mark 

Is among the oldest, and now over **200 YEARS** old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
93 Chambers Street, New York.

Established 1836.

ALFRED FIELD & CO.,

93 Chambers and 75 Reade Streets, New York.

Importers of

HARDWARE, CUTLERY, GUNS, ANVILS, CHAINS, FILES.

Sole Agents for

JOSEPH RODGERS & SONS, LIMITED,	BEST CUTLERY IN THE WORLD.
PEUGEOT FRERES,	HORSE AND TOILET CLIPPERS.
COATES CLIPPER MFG. CO.	
ELEY BROS., LIMITED,	CAPS, WADS, CARTRIDGE CASES, ETC.
L. HUGONIOT TISSOT,	FINE FRENCH PLYERS AND OTHER SMALL TOOLS.
ISAAC GREAVES,	SHEEP AND GARDEN SHEARS.
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Proprietors of the following brands of Cutlery:

ALFRED FIELD & CO., PARKER & FIELD, PROGRESS, CRITERION, BRANFORD CUTLERY CO., CONTINENTAL CUTLERY CO., WALTHAM CUTLERY CO., ALEXANDER FRAZER & CO., JONES & CO.

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Goodell Company, Antrim, N. H.

Simply to remind you that we make the best line of

CUTLERY

FOR THE HARDWARE TRADE,

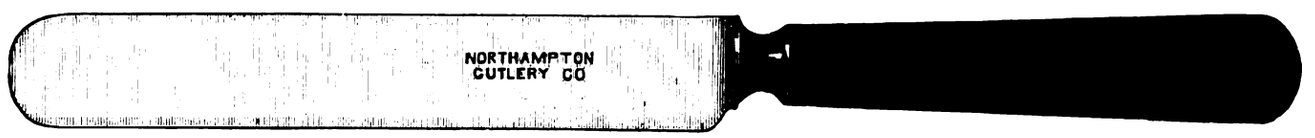
and those who want a p osperous and satisfactory Cutlery trade in 1898, will do well to tie to it. . . . . **Sold by the best Jobbers.**

. . . CATALOGUE FREE . . .

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ALFORD & BERKELE CO	M. G. RODEARMEL,	C. A. MAYDWELL,	G. W. HODGES,	HENRY KEIDEL & CO.,
77 Chambers St., New York.	516 Boston Block, Minneapolis.	23 Davis St., San Francisco.	216 Northern Office Bldg., Chicago.	32 Hopkins Place, Baltimore.

NORTHAMPTON CUTLERY COMPANY,



Manufacturers of Most Complete Line of Table Cutlery Butcher, Carvers, and Plated Goods in Pearl, Ivory, and Solid Steel Knives and Forks.

Factory and General Office, Northampton, Mass.

New York Office and Salesroom, 96-98 Reade Street.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears

ACKNOWLEDGED THE BEST



Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

R. HEINISCH'S SONS CO.,

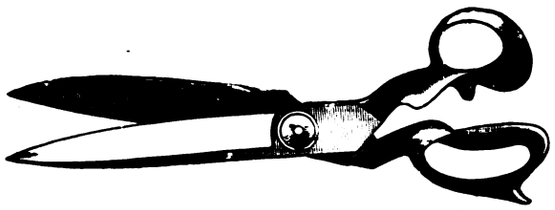
New York Office, 90 Chambers Street. NEWARK N. J.

"Has Our Esteemed Favor."

Edward Darby & Sons, Philadelphia, Pa. [*Wire Goods*]: For the past few years we have been in HARDWARE, and we beg to remind you that it has our esteemed favor, and will recommend the same to anyone desirous of a good, useful, common-sense trade journal such as HARDWARE is.

WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

YOU SHOULD HANDLE THOSE MADE BY

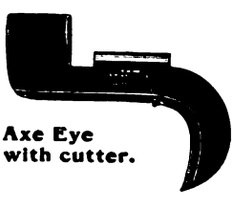
J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailer Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .

Bush Hooks



Axe Eye with cutter.

Axe Eye Strapped.
Axe Eye Plain.
Axe Eye with Cutter.
1 Ring with Cutter.
2 Ring Plain.
New Orleans Pattern.

UNDERHILL, CLINCH & CO.,

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No. 94 Chambers Street,

NEW YORK.

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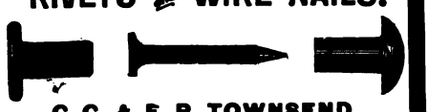
SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $6.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

RIVETS AND WIRE NAILS.

C. C. & E. P. TOWNSEND,
New Brighton, Penn.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS
BALL BEARING

Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

ESTABLISHED 1854.
BOXWOOD AND IVORY
RULES.
STEPHENS & CO., Riverton, Conn., U. S. A.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads, &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application


SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
Established 1870.
. . . Manufactured by
James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

GEO. W. NOCK, Manufacturer of
KEYS AND Locksmiths' Supplies,
BICYCLE Supplies. . .
146 No. 4th St., PHILADELPHIA.

STARR'S GRANITE CEMENT.
Repairs chipped and rusty spots in Graniteware. Stops Leaky Tinware, Copperware, Fibreware, Woodenware, Tin and Iron Roofs, Eave Spouts, &c. Sample and prices free to dealers.
P. H. STARR,
Box E, NORWALK, OHIO.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

TRAVELING salesman for first-class line of American pocket cutlery, on commission, in Missouri and Kansas, or Nebraska and Iowa. Address C. C., care HARDWARE, No. 143 Chambers Street, New York.

BY March 1st wanted a capable and industrious young man to run a Hardware store in western Pennsylvania. Give references and experience. Address care H. S. WEAVER, No. 438 Church Street, Indiana, Pa.

WANTED: Competent man as foreman to equip and run a small shovel plant. Must be practical and familiar with all details. All communications confidential. Address, giving full particulars and references. SHOVELS, care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholism, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

POSITION wanted as buyer, assistant buyer or salesman by young man thoroughly experienced in Hardware, tools, housefurnishing and leather goods, china and glassware. Highest references. H. L. G., care HARDWARE, No. 143 Chambers Street, New York.

BOOKKEEPER.—Competent double entry bookkeeper and cashier of many years' experience, possessing energy and business abilities, is open for engagement with wholesale house or manufacturing concern. Married. Best of references as to character, etc. Address BOOKKEEPER, care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE and bicycles.—Young man of 26, four years as Hardware salesman, also about four years in bicycle business, desires position. Understands bicycle business thoroughly. References unexceptional. Address H. & B. SALESMAN, care HARDWARE, No. 143 Chambers Street, New York.

ADVERTISING man wishes to make connections at once with a reliable and financially strong manufacturing company. Is fine writer and designer of advertising matter, and knows when, how and where to place it to advantage. Can take full charge of advertising department. Address EDW. C. WIMBROUGH, No. 530 N. 13th Street, Philadelphia, Pa.

A FIRST CLASS buffer wishes a position; is a first-class worker on Hardware and all kinds of metal; bicycles preferred; union shop if possible. OTTO DIETRICH, No. 7 Comes Street, Newark, N. J.

A YOUNG man, some experience as salesman, would like to engage with a reliable firm where he could learn the business, with view of representing them in the city and nearby trade. Chance of advancement looked for more than salary. G. H. Blanchard, No. 331 West Twenty-first Street, New York.

BICYCLE repairer and builder would like position with Hardware house handling wheels. Capable to take charge of bicycle department entirely; can handle fittings. GEO. GOULD, No. 114 Freeport Street, Dorchester, Mass.

POSITION wanted by an elderly man as salesman in a retail Hardware store; city or country; over twenty years' experience. Reference, Peter Duryee & Co., New York City. JOHN BARRETT, Hudson Boulevard, West Hoboken. N. J.

SITUATION wanted as superintendent, assistant or general foreman of machine works or factory. Have extensive experience in managing the manufacture of general and wood-working machinery, machine ools and bicycles; well up in modern machine shop practice, designing and draughting; successful in reducing cost and estimating. Address R. U. S., care HARDWARE, No. 143 Chambers Street, New York.

OFFICE MANAGER, fifteen years' experience in general Hardware business, familiar with all details of manufacturing Hardware specialties correctly tabulating statistical information, man of ability, judgment and experience, expert financier, with good executive ability, rapid and original letter writer, practical turn of mind, quick, comprehensive and energetic, would like a position by February 1st; expectations moderate; highest integrity. Address A. B. C., office of HARDWARE, No. 143 Chambers Street, New York.

AN efficient and experienced lady stenographer and expert typewriter, is open for an immediate engagement. The highest references given. Address K. E. N., care HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

WANTED by a practical mechanic with eighteen years' experience in the manufacturing of wood-working machinery and iron tools. Has had charge of machine shop for ten years and buying of supplies. A position as superintendent, assistant manager or traveling salesman. A1 references. Address H. A. CANT, Lancaster, Erie County, N.Y

MAN, thirty-one years old, wants to change his position; nine years' experience in retail Hardware as bookkeeper. buyer and salesman. Experience on road. A1 city reference given. Moderate salary. Address LOCK, Box 34, Jeannette, Pa.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York, in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE-No. 143 Chambers Street, New York.

EXPANSION BOLTS


For fastening all kinds of structure to brick and stone work
Patentee and M'f'r, ISAAC CHURCH,
Send for Catalogue B. Toledo, Ohio.

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Situations Wanted.

POSITION as head of department, purchasing agent or salesman, sixteen years' experience; two years with one of the largest retail houses in New York State; first-class references; Eastern States preferred. Address M., care HARDWARE, No. 143 Chambers Street, New York.

WANTED position as clerk or traveling salesman, by a young man. Twelve years' experience on the road, and in retail Hardware, cutlery and guns. Best references. Address SHIRES, Lock Box 308, Bedford, Pa.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and, general Hardware finishing. Address J. G. K., No. 535 Park Street, N.Y.

SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted as superintendent of some manufacturing establishment, large or small work, can make his own drawings. Address H. K., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

A COMPETENT Hardware clerk, 11 years' experience in builders, locksmiths and bell hangers, cabinet, refrigerator tools, etc. Can speak German and English. Address "SEBASTIAN," care HARDWARE, No. 143 Chambers Street, New York.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

WANTED—By a party who represents a line of commission goods; is open for a number of good lines. Address R. H. J., care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman wishes to add good selling line for Hardware, paint, cycle or general store trade. References; state particulars, and address "36," care HARDWARE, No. 143 Chambers Street, New York.

AN A No. 1 side line wanted by a first class specialty salesman, visiting Hardware and cutlery trade throughout New England States. "ESTABLISHED TRADE," care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman throughout New England and Middle States, with permanent address on Broadway, New York, would like novelties and lines of S. M. belts, oil or tailor's shears. Exclusive agency in above territory preferred. Address JOHN F. DOWD, No. 239 Broadway, New York City.

Side Line Wanted.

A COMMERCIAL traveler with established trade in Michigan, Indana, Ohio and West Virgina. Jobbing and large retail. Would like to add one more good line; commission or salary. Address MANUFACTURERS AGENT, M. I. L, care Forest City House, Cleveland, Ohio.

Side Line Offered.

WANTED—Traveling salesmen visiting the wholesale Hardware and rubber trade to carry an up-to-date patented novelty as a side line. Send 50 cents for sample, post-paid. Address ORDNER MFG. CO., Cleveland, Ohio.

SALESMEN wanted to sell our line of snaps, chain goods and Hardware specialties on commission Expenses guaranteed to right parties. Sell to Hardware and harness trade. Give reference, territory and experience. IRA F. WHITE & SON, 76 Park Place, New York.

WANTED, to represent a manufacturer of Hardware, by an experienced salesman, calling upon the trade from Maryland to Georgia. Has one good line, of limited size. Address SALESMAN, No. 311 W. Lauvale Street, Baltimore, Md.

To Let.

ONE of the finest rooms in Ohio, finished specially in hard woods for Hardware trade and used for such twenty-six years, may be enlarged to include tinware, plumbing and roofing. Rare opportunity. Address W. B. Carey, Salem, Ohio.

For Sale.

A NICE, clean stock of Hardware in one of the most prosperous county seats in Ohio. An established and profitable business. Good reason for selling. Address, immediately, "WARWICK," care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE store twenty miles from New York; doing good business. Rare chance for a live man. Owner will give satisfactory reasons for disposing of same. Price, $3500. Address H. H. G., P.O. Box 2383, New York City.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A WELL-KNOWN Hardwareman, with a continuous experience of 20 years, desires to represent a few leading manufacturers as sales agent in this city, or would be willing to accept the position of purchasing agent for some corporation where his services would be valuable. Competency undoubted. Address B. B. B., care of HARDWARE, No. 143 Chambers Street, New York.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

Hardware Specialty Agency Wanted.

A RELIABLE house on the Pacific Coast wants exclusive agency for Hardware and specialties on commission basis. A first-class chance for those who wish to extend their Coast connections. Address A. R. D., care HARDWARE, No. 143 Chambers Street, New York city.

Office Room to Let.

OFFICE and desk room to let on street floor; most desirable location on Chambers Street, including steam heat and porter's services. R. CHRISTENSEN, No. 88 Chambers Street, New York.

Wanted to Purchase.

WANTED to purchase a retail Hardware, house-furnishing, lumber, building material or coal business in a live, growing town, having a good location, doing a good business. State full particulars and price. JOHN R. SWARTZ, Hughesville, Pa.

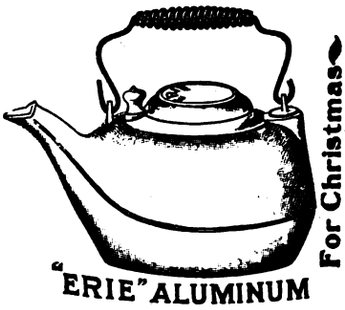
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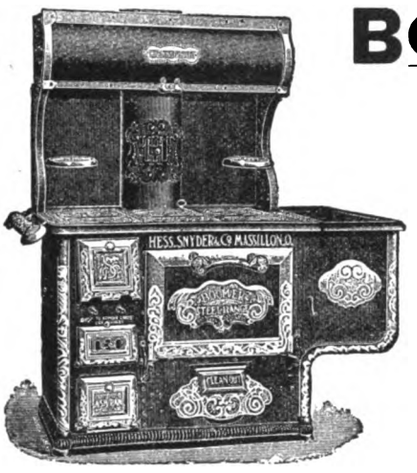
GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware. GRISWOLD MFG. CO., Erie, Pa.

DUNBAR BROTHERS' STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS MADE FAST
SHEET STEEL STEEL BRASS WIRE
BRISTOL, CONN. P.O. BOX 98



BOOMER STEEL RANGE,

With High Closet.

Rolling Front. Six Holes. Stationary or Portable Reservoir.

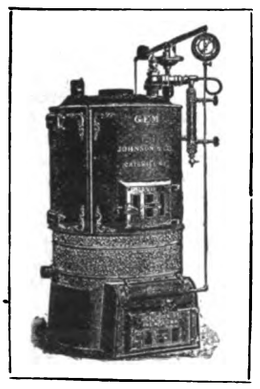
Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the

CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,
No. 73 South Erie Street, MASSILLON, OHIO.



GEM and ECONOMIST HEATERS.

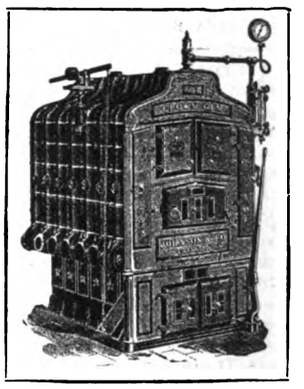
FOR HOT WATER and STEAM HEATING.

GEM, ROYAL GEM and CROWN GEM, PORTABLE, ECONOMIST BRICKSET.

Embodying the latest improvements connected with the heating of houses. Special attention is given to improving the heating of houses of modern construction. Trade correspondence solicited. Write for Catalogue.

.... MANUFACTURED BY

JOHNSON & CO.,
CATSKILL, N. Y., and 84 John St., New York.



R. CHRISTENSEN, CABINET AND GENERAL HARDWARE.
88 CHAMBERS ST., NEW YORK.
MANUFACTURER OF
WROUGHT POLISHED BRASS HINGES
WITH BRASS PINS.



CAN FURNISH THEM IN BRONZE, NICKEL OR OXIDIZED.

One of the First and Last Advertisers.

New Jersey Car Spring & Rubber Co., Jersey City, N. J. [*Rubber Goods*]: This company was one of the first to enter your list of advertisers, and we expect to be among the last to retire. We feel that HARDWARE is one of the publications we can't afford to stay out of.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... 40&12½%
Railroad.....

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&5%
Cent. Fire, Pistol and Rifle.25&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.. ...$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....25&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
"New Club," Black Powder... 40&10&5@40&10&10%
"Black Club," Black Powder... 40&10&2½@40&10&5%
"Smokeless" Nitro Powder.... 40&10&10&10%
"Acme," Dense Nitro Powder.. 40&10&10&10%
"Trap," Nitro Powder...40&10& 10&10%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c
P.E., 11 up.1.00..P.E., 9&10..$1.35
P.E., 8....1.50..P.E., 7.....1.50
} 20%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags ₩ bag.....$1.32
Drop Shot, sizes smaller than B, 5-lb bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, ₩ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, ₩ bag.....$ .35
Buck Shot, 25-lb bags, ₩ bag...$1.47
Buck Shot, 5-lb bags, ₩ bag....$ .35
Chilled Shot, 25-lb bags, ₩ bag.$1.50
Chilled Shot, 5-lb bags ₩ bag..$ .35
Dust Shot, 25-lb bags, ₩ bag....$2.00
Dust Shot, 5-lb bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand Powder Co.:
Orange Rifle "Extra," F, FF, FFF, in kegs 25 lb.....$4.00
½ kegs 12½ lb..... 2.25
¼ kegs 6¼ lb..... 1.25
1 lb canisters..... .25
½ lb canisters..... .15
¼ lb canisters..... .12
Orange, Special, Nos. 1 and 2, in kegs, 25 lb..... 5.00
½ kegs, 12½ lb..... 2.75
¼ kegs, 6¼ lb..... 1.50
Orange Duoking, Nos. 1 to 5, in ¼ kegs, 6¼ lb..... 2.25
1 lb canisters..... .45
Orange Lightning, Nos. 1 to 7, in 1 lb canisters..... .75
[For 1000 lb lots 10% discount.]
Laflin & Rand W.-A. Smokeless:
Single Canisters.....$1.00
10-Can Drums.....$9.00
Discounts on application.
Blasting and Mining, "A," in kegs, 25 lb.....2.25
Blasting and Mining, "B," in kegs, 25 lb.....1.50

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.15
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.15
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.40
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$23.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000 .....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montroes, Galien, Mich.:
Camp's Success.....₩ doz. $3.80
Galien Safety.. .....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burton's, No. 2....₩ doz. pairs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs.$1.00
Kohler's:
Invisible, No. 3.....₩ gro. $6.80
Perfect, No 2 .....₩ gro. $7.07
Bolt Holder, No. 1.....₩ gro. $9.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole.....8¾@9¼c
Eagle Anvils, ₩ lb 9c.....15@15&5%
Hay-Budden, Wrought.....8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $18.00..20%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....35&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. M Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $34.00. 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $30....50@50&10%
Steer's No. 1, $20; 2, $18.....40%
Stearns' No. 2, $45.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.35.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, ₩ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Detroit.....60@70%
K. & F.....60&10&10&5%
Syracuse, for wood.....40%
W. & B. Diamond.60&10@60&10&10%

TWIST DRILLS—
Cleveland.....60&10@70%
Detroit.....60&10&5@70&5%
K. & F. Straight Shank..60&10&10%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard .....60&10@70%
Syracuse.....60&10@7 %
W. & B. Diamond.....60&5@60&10%
W. & B. Universal Self-Oiling...10%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....30&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, ₩ gr.....$3 00@$3.25
H'ld Scratch ₩ gr.....$3.75@$4.00
Pat. Peg ₩ gr.....33@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr....$1.35@$1.45
Shouldered Brad, ₩ gr...$1.50@$1.65
Socket Scratch ₩ doz....$1.00@$1.10
Stanley Rule & Level:
Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Seats—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%

Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $12.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $2.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands. $5.00@5.25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $6.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:
No. 2000 20 30
₩ doz. 75c 85c $1.65 net
Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....20%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.:
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&5%
Cleveland Rubber Co.:
Buckeye.....30&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable .....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....1f@15&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $5, 10@10&10%
Terrell's No. 1 and 2, $8; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bicycle Tires—

W. & B .....₩ pair, $6.50
W. & P.....₩ pair $7.00

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Bit Holders—

Angular.....40&5%
Extension:
Barber's, ₱ dos. $15.00.....45%
Ives' ₱ doz. $20.60.60&10@60&10&5%

Blind Adjusters—

Domestic..₱ dos. $2..35%@35%&10%
Excelsior..₱ dos. $10.00....50&10&2%
N rth's.....10%
Zimmerman's.....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₱ gro. sets.....$5.50
Gorhams' Improved Star Tenon ₱ gro. $1.00.....25%
Merriman's Brass Lever ₱ gr. $15.00
Merriman's Iron Lever ₱ gr...$9.00
Millers Falls ₱ set $1.00.....15&10%
Security Gravity ₱ gr.....$9.00
Van Sand's.....65&10%
Washburn's Plate ₱ gr.....$9.00
Zimmerman's.....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining.....80%
Pat. Automatic.....80%
Perfect Safety.....80%
Stowell Novelty Block.....80&10%
Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c.....70%
Cast Iron Chain.....50&10%
Cast Iron Shutter Bolts.....70%
Ives' Patent Door Bolts...60&10&5@ 50&10&10%
Wrought Barrel.....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list.. 80&10&5@70%
Wrought Shutter, Sargent's list.. 60&10&5@70%
Wr't Sunk Flush, Sargent's list. 50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n Stanley's list.....60&10@60&10&5%

CARRIAGE, MACHINE, &c.—

Bolt Ends.....80@80&5%
Machine.....80@80&5%
Carriage, Common.....75&5@75&10%
Norway Iron, list Oct. '84..75&10@ 75&10&5%
Phila., Eagle, list $3.00.....85&10%
R. B. & W., $3.40 list.....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted.....80%
Eagle Phila., list Feb. 26, '96...85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 28, '83..75@75&10%
Eagle.....85%
R. H. & W., list Oct. 15, '84.....80%

STOVE AND PLOW—

Plow.....70@70&10%
R. B. & W., Plow.....65%
Stove.....75&10%

MISCELLANEOUS—

Sink.....75&10%
Sleigh Shoe.....85%

Bone Mills—

Enterprise.....20%

Borers, Tap—

Common and Ring.....20&10@35%
Enterprise, No. 1, $1.25; 2, $1.65; 3, $2.50 each
Ive's.....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'.....	$2.50	$2.00
Jennings'.....	2.50	3.00
Millers Falls.....	7.50	15&10%
Other Machines....2.25	2.50	....net
Phillips' Patent with Augers.....	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₱ gro.....$4.50@$5.00
Inch, ₱ gro.....$5.00@$5.50

Boxes, Mail—

Heller's.....40&5%

Braces—

Barber's.....80&10@60&10%
Barber's Ratchet.....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30.....70@75%
Nos. 117, 118, 119.....70&5%
Common Ball American..$1.10@$1.30
Ives':
Barbers'.....60&5%
Barber Ratchet.....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet.50&10@60& 10&10%
Spofford.....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114⅔.....60&10%
No. 208⅓@214⅔.....60%
Lancaster Mach. & Knife Works.45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's.....50&10&5%

Brackets—

Door Screen.....70&10%
Moore's.....70&5%
Shelf, Bradley's Patent.....80&10%
Shelf, Plain, Regular list.....70&10%
Shelf, Fancy, Sargent's list.60&10@ 60&10&5%
Window Screen Corner.....70&10%
Reading, plain.....70%
Reading, Rosette.....70%

Bright Wire Goods—

Standard list.....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's.....80@80&10%
Seymour Smith & Sons.....60%

Butcher's Cleavers—

Beatty's.....40&5@40&10%
Bradley's.....25@30%
Dunlap's Family.....25%
Foster Bros. Flat Hds.....30%
Foster Bros. Round Hds.....40%
Lancaster Mach. & Knife Works.40%
L. & L. J. White.....25%
New Haven Edge Tool Co.'s.....40%
P. S. & W.....35%&5@35%&10%

Bung Hole Borers—

Enterprise.....25%
C. E. Jennings & Co.:
No. 6.....40%
No. 10.....30%

Butter and Cheese Triers—

Ordinary Black Handle.....25%

Butt and Rabbet Gauges—

Stanley's.....35&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House.....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@ 40&10%

CAST IRON—

Loose Joint.....75@75&5%
Loose Joint, Japanned.....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin.....75@75&5%
Mayer's Hinges.....75@75&5%
Parliament Butts.....75@75&5%
Sargent's:
Fast Joint, Broad.....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronsed Inside Blind Butts.50&10 @50&10&5%
Bronsed, Narrow...50&10@50&10&5%
Fast Joint, Narrow, } 75%
Fast Joint, Light Narrrow, } 75%
Fast Joint, Broad, } 75%
Loose Joint, } 75%
Loose Pin, } 75%
Table Butts, Back Flaps, etc. } 75%

Can Openers—

American.....₱ gross $1.75@$1.90
Columbian.....₱ gro. $14.40
Dunlap's Iron Handle, No. 3 ₱ gr. $13.00.....25%
Dunlap's Sardine Scissors, ₱ dos. $5.00....25%
Dunlap's Wood Handle No. 2 $1.75.25%
Goodell's Acme.....₱ gr. $6.00
No. 5, Iron Handle, ₱ gr....$3.00@3.25
Sardine Scissors...₱ dos. $2.00@2.25
Sardine Scissors, Forged Steel, ₱ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50.....70&10%
Universal, ₱ doz. $3.00.....55&5%
World's Best, ₱ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton.....20@25%
Horse and Curry.....20@25%
Wool.....20@25%

Carpet Stretchers—

Bullard's.....33⅓&5%
Cast Iron Steel Points, ₱ dos.75@80c
Cast Steel, Polished.....₱ dos. $2.25
Dunlap's.....25%
Excelsior.....25%
Socket.....₱ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal.... } Ball Bearing } ₱ dos. $24.00
Grand..... } Ball Bearing } ₱ dos. $36.00
Grand Rapids. } Ball Bearing } ₱ dos. $33.00
Hall..... } Ball Bearing } ₱ dos. $30.00
Prize..... } Ball Bearing } ₱ dos. $24.00
Premier..... } Ball Bearing } ₱ dos. $24.00
Superior..... } Ball Bearing } ₱ dos. $24.00
Crown Jewel, japan finish, ₱ dos $19.00
Crown Jewel, nickel, ₱ dos. $31.00
Furniture Protector, Japan.....₱ dos. $33.00
Furniture Protector, Nickel.....₱ dos. $34.00
"Standard A," Jap...₱ dos. $30.00
"Standard A," Nick..₱ dos. $33.00
Standard.....₱ dos. $34.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby.....₱ doz. $2.50
Child's.....₱ doz. $3.00
Little Jewel.....₱ doz. $4.00
Little Queen.....₱ doz. $4.00
Misses.....₱ doz. $9.00
Quantity rebates on application.

Casters—

Bed.....60&10&10@70%
Deep Socket.....60@70&10%
Giant Truck Casters.....35%
Gwinner's Common Sense.....50%
Gwinner's Hercules.....50%
Martin's Patent (Phoenix)..60@60&5%
Plate.....60&10&10@70%
Socket Truck Casters..45&10@45& 10&10%
Stationary Truck Casters.....50&10%
Store Truck.....55%
Swivel Truck.....50&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84.....50&5%
Yale Gem.....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@ 70&10&10%
Peck, Stow & W. Co.....60%
Sargent's.....70&10@70&10&10%

COW TIES—

American.....50&10%
Covert's Horse and Cattle:
Jute.....45%
Manilla.....45%
Sisal.....45%
Triumph.....45%

Chain—

American Coil, Ass'n cask prices.

	3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.60	2.35	2.25	

Bridgeport Chain Co.:
Brown, Coil.....60&10&5%
Brown, Halter.....60&10&5%
Monarch, Sash.....60%
Triumph, Coil.....60&5%
Triumph, Halter.....60&5%
Covert Saddlery Works:
Breast Chain.....60&20%
Hitching Chain.....60&20%
Rein Chain.....60&20%
Covert Mfg. Co. Chains.....45%
Covert's Halter Chains.....45&2%
Covert's Heel Chains.....45&2%
Galvanized Pump Chain, with Buckets.....5@5½c
German Coil.....60&10&5@70%
German Halter Chain.60&10&5@70%
Jack Chain, Iron.....70@70&10%
Jack Chain, Brass.....70@70&10%
Oneida Halter Chain.....60@60&10%
Plumbers.....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Chain Guards—

Aluminum S. & N. Co.....50%

Cherry Stoners—

Enterprise.....25%
Family.....net ₱ dos. $4.00

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros.....30%
Charles Buck.....30%
Douglass.....75@75&10%
Hinsdale.....
Mix.....
Ohio Tool Co.....
P. S. & W.....
Sag Harbor Tool Co.....
Swan.....
Winsted Edge Tool Co.....
} 75&10 &5%
C. E. Jennings & Co. No 70....25&10%
Jennings & Griffin Mfg. Co.....75&5%
Merrill & Wilder.....60&10%

TANGED AND MISCELLANEOUS—

Rox.....60&10%
Buck Bros.....30%
Butchers'.....$4.75@$5.00 to $
Cold Chisels, good quality, ₱ lb 14c@16c
C. E. Jennings & Co.....20%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges.....40&10%
Spear & Jackson's.....25 to $
Tanged Firmers'.....50@50&10%

Chucks—

Beach Pat....each $3.00.....33%
Cushman's:
Combination.....40%
Independent.....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat.....30%
Skinner's Pat. Drill Chucks.....30%
Skinner's Ind't Lathe Chucks.....40%
Skinner's Pat. Comb. Chuck.....40%
Union Mfg. Co.:
Combination.....40%
Independent.....40%
Universal.....40%
Victor, No 1, $3.50; No. 2, $12.50.25%

Clamps—

Adjustable, Cincinnati ...15@15&10%
Adjustable, Hammers.....15@15&5%
Adjustable, Stearns'.....30@30&10%
Cabinet Makers, Sargent's ...45&10%
Carpenters', Cincinnati...15@15&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co.. 40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric.....25%
Splicing.....25%
Splicing Tools.....25%
Warner's.....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank.....₱ doz. $3.25
Star Shank.....₱ doz. $3.50
Star Socket.....₱ doz. $3.75

Clippers—

HAIR—

Chicago Flexible Shaft Co.'s:
Handy.....Each $1.10..50%
Monitor.....Each $1.85..50%
Stewart Pat.....Each $2.00..50%

HORSE—

Chicago Flexible Shaft Co.'s:
Chicago Belt Clipping Machine, Each $15 00..15%
New '98, Chicago..Each $12.75..15%

Clips—

Norway Axle.....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips.....70&10@75%

Coffee Mills—

Box and Side.....60&10@60&10&5%
Enterprise Mfg. Co.....25%
Logan & Strobridge Co...net prices
National Specialty Mfg. Co.....30%
The Swift, Lane Bros.....33⅓%
Waddell's New Box Mills, Ideal Brand, New List.....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers.....40%
Bemis & Call Co.'s:
Compasses.....50&5%
Dividers.....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers.....40%
Inside, Outside and Double.....70%
Registering.....50%
Wing Calipers.....70%
Wing Dividers.....75%
Stevens's "Ideal".....35&10%
Stevens's "Leader".....55%
Starrett's Fay's Patent Spring Calipers and Div...35&10%
Wright's Graduating.....15%

Coopers' Tools—

Bradley's.....30%
Barton's.....30@30&5%
Beatty's.....33⅓%
L. & L. J. White.....30@30&5%
Sandusky Tool Co.....25&10@30&10%
Shaves, Cincinnati Tool Co.. 15@15&10%

Corkscrews—

Detroit Cork-Screw Co.....33⅓%
Howe Bros. & Hulbert.....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson.....₱ doz $10.00
Williamson's.....40%

Corn Hooks—

Kretsinger Cut-Easy, ₱ doz. $3.00 net

Corn Knives and Cutters—

Bradley's.....10%
Wadsworth's.....30@30&10%

Counter Sinks—

Adjustable.....30%
Countersink Bits.....40&10%
Shepardson's Diamond.....40@45%
Smith's.....30%
Wheeler's Patent.....40%

Crayons—

Sargent's List.....30%

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Dixon's
Eclipse.....@ gro. $3.75
Emerald.....@ gro. 5.00
Oriole.....@ gro. 5.00
Rainbow.....@ gro. 2.81
Solid.....@ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96.....25&10%
Perfect.....25&10%
Rubber, @ doz. $7.50.....20@30&10%
Southington Cutlery Co.'s List, Nov. '96.....25&10%

Cycle Hangers—

Lane's.....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment).....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List.....50%
Leather Muzzles.....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's.....20%
Eclipse.....60@60&10%
Unity F. G.....50%

Door Openers, Electric—

Electric Door Opener, complete. $9 50&10%
Thaxter Electric Lock, list....$36.00

Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil).....30%
Gem (Coil), list Oct. '95.....35%
Norton.....40@50%
Rubber, complete, @ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95.....33⅓&5%
Torrey's Rod, 39 in. @ doz $1.2[illegible]@1.35
Victor, Coil.....60&10@60&10&5%
Warner's.....55@55&10%

Drawer Pulls—

Sargent's List.....60%

Drawing Knives—

Adjustable Handle.....40@40&10%
Bradley's.....35%
Douglass.....75@75&10%
Jennings & Griffin.....75&5%
Merrill & Wilder.....60&10%
Mix, New Haven, P. S. & W., Witherby } 75& 10& 5%
Watrous.....30@30&10%
L. & I. J. White.....30&5@35%
Wilkinson's Folding.....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'.....each $1.75
Breast, Barthoomew's No. 12, @ doz.....$15.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W.....40&5%
Breast, Wilson's.....60&5%
Graves Drill Stocks.....40%
Ratchet, Billings' Dble. Acting.33⅓&5%
Ratchet, Ingersoll's.....35%
Ratchet, Merrill's.....20@30&5%
Ratchet, Moore's Triple Act.35@30%
Ratchet, Parker's.....40%
Ratchet, Whitney's.....30&10%
Ratchet, Weston's.....30@35%
Stearns' Bench.....50@60&10%
Whitney's Hand Drill, No. 1, $10.00: Adjustable No. 10, $12.00.....33⅓&5%
Wilson's Drill Stocks.....10%

TWIST DRILLS—

See Augers and Bits.

Drug Mills—

National Specialty M'f'g. Co..... 30%

Egg Beaters—

Dover (Standard Co.) No. 10 @ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15.....@ gro. $21.00
Paine, Diehl & Co.'s Keystone..33⅓&5
Spiral.....@ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric.....$3.00 each, less 50%
Annunciators, $1.50 @ drop, less 50%
Batteries, Leclanche...30c. each, less 50%
Batteries, Carbon..30c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry.....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..30c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5[illegible] c. ea., less 50%
Gravity Batteries, $1.00 ea., less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..40c. each, less 50%
Induction Coils, Telephone 6'c. each, less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...13c. @ lb., less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea., less 50%
Spark Coil's, 12 pt.....$2.80 each, less 50%
Tape, Insulating, 80c. @ lb., less 50%
Tube, Speaking, $21.00 @ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P. 2.00 @ doz., less 50%
Whistles, Speaking Tube, Porcelain.....75c @ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, OF FF.
Kegs, @ lb.	4½c	5c	3c
½ kegs, @ lb.	4½c	5½c	3½c
¼ kegs, @ lb.	5c	5½c	3½c
10 lb cans, 10 in case....	6c	6½c	5½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, @ gro.....$4.50
No. 6, @ gro.....$7.20

Escutcheons—

Brass Thread.....60@60&10%
Wood.....35%

Escutcheon Pins—

Brass.....70@70&10%
Iron, list January, 1890.....60@60&5%

Farriers Knives—

"Challenge".....@ doz. $3.00
Popes.....@ doz. $3.00
Wilkinson's.....@ doz. $3.00

Faucets—

Brass Globe Cocks.....60&10%
Brass Racking.....60&10%
Burnside's Red Cedar.....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball.....35%
Fenn's Cork Stops.....60%
Frary's Pat. Petroleum..60&10@70%
John Sommer's "Peerless," Tin Key.....40%
John Sommer's "Boss," Tin Key.50%
John Sommer's "Victor," Metal Key.....50&10%
John Sommer's "Duplex," Metal Key.....60%
John Sommer's "Buckeye," Metal Key.....40%
John Sommer's "Rochester," Metal Key.....50%
John Sommer's "Rival," Metal Key.....50%
John Sommer's "Crescent," Metal Key.....50&10%
John Sommer's "Diamond," Lock 40%
John Sommer's "Eclipse," Lock.. 40&10%
John Sommer's "Union," Lock.50%
John Sommer's "I. X. L.," Cork Lined.....50%
John Sommer's "Reliable," Cork Lined.....50&10%
John Sommer's "Common," Cork Lined.....70%
John Sommer's "O. K.," Cork Lined.....50%
John Sommer's "Chicago," Cork Lined.....60%
John Sommer's "Perfection," Cedar.....40%
John Sommer's "No Brand." Cedar.....50&10%
Star.....60@60&5%

SELF MEASURING—

Enterprise @ doz. $36.00.....40%
Lane's @ doz. $36.00.....40%
National Specialty Mfg. Co....33⅓&5

Files—

DOMESTIC—

American.....70&10@75%
Arcade.....70%
Derby.....75&10%
Disston's.....75%
Economy.....75&10%
Great Western.....70&10@75%
Kearney & Foot.....70&10@75%
Nicholson.....70%
Nicholson's X. F. Files...50@50&10%
Royal.....75%
Second Quality Files.....60@60&10%
Tiger.....75%
Troy File Works:
Files.....70&10%
Rasps.....70%
Victor.....75&10%

IMPORTED—

Stubs.....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00 No. 2, $2.50 No. 3, $1.50 No. 4, $1.00 @ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (30c base).....10%

Fish Scalers—

Covert's Saddlery Works:
Great American.....60&30%
Fitch's.....35&10%

Fluting Scissors—

List.....45%

Forks—

Champion, Hay, Manure, etc.75&15%
Columbia, Hay.....75&10%
Columbia, Manure.....30%
Columbia, Spading.....30&5%
Hay.....75%
Iowa Farming Tool Co.:
Barley.....60&40%
Manure, 4 tine.....75&10&2½%
Manure, 5 and 6 tine.....70&30&5%
Spading.....75&10&2%
Victor, Hay.....75&10%
Victor, Manure and Header.....60%

Freezers, Ice Cream—

Blizzard.....net
Gem.....net
Granite State.....net
Improved Arctic.....net
Keystone, P. D. & Co.....20%
Ohio.....60&10%
Packer's:
Confectioner's Machine.....net
Double Action Standard.....net
Good Luck.....net
Standard.....net
Shepard's Lightning.....net
White Mountain.....net

Fruit, Wine and Jelly Presses.

Enterprise.....35%

Fry Pans—

Acme Fry Pans.....70&10%
Polished, regular goods...75@75&10%
Standard List.....75&10@50%

No.....	0	1	2	3	4
@ doz..	$3.00	$3.75	$4.25	$4.75	$5.25
No.....	5	6	7	8	
@ doz.....	$9.00	$7.00	$8.00	$9.00	

Gas Burners, Self-Lighting—

Gem.....@ doz. $2.50
In lots of 3 doz.....@ doz. $2.25

Gauges—

Bemis & Call's Steel.....50%
Boss, Screw Pitch.....33⅓&5
Clapboard.....35&10%
Marking, Mortise, &c..60&10@60& 10&10%
Stanley's.....60&10%
Stanley's Chisel.....35&10%
Starrett's Surface, Center and Scratch.....35&10%
Copeland Champion Bit @ doz $3.00 net
Stubs' Wire and Drill.....20%
Wire, Morse's.....25%
Wire, P. S. & W., low list....10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," @ gr $12.....25@25&10%
Ball Hangers.....50%
"Diamond" Gimlets @ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...50&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head.....55%
Nail Gimlets:
Assorted 1, 2 and 3.....@ gr. $1.50
Assorted 2 and 3.....@ gr. $1.70
Pod.....50%
Star.....50%
Spike Gimlets:
Assorted 1, 2 and 3.....@ gr. $2.00
Assorted 2 and 3.....@ gr. $2.25
Wood head.....50&10%

Glue—

Dodd's Liquid Glue.....25&25&10%
Le Pages Liquid.....25&25&10%

Glue Pots—

Family, Howe's "Eureka".....50%
Family, L. F. C.'s "Handy".....60%
Enameled.....45@50%
Tinned.....40@50%

Graters—

Champion Nutmeg .....@ doz. $9 00
Edgar's Nutmeg..@ gro. $10.50..10%
Enterprise.....35%
Rotary Nutmeg.....@ gro. $9.00

Grindstone Fixtures—

Howard Iron Co.....20%
P., S. & W. Co.....50&10&10%
Russell & Erwin.....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's.....@ doz. $5.50

Halters—

Covert Mfg. Co.....45&2%
Covert's Saddlery Works:
'96 List.....60&20%
Upson & Woodins.....40%
Wright's Animal Tether.....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co.....50&10@50%
Henry Cheney Hammer Co.
Handled Claw.....40&10%
Machinists'.....60&10%
C. Hammond & Son. List..40&10@60%
Humason & Beckley.....50@50&10%
Dunlap's Patent.....35%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75.....40&10%
Maydole's.....33⅓&5@40&5&5%
Peck, Stow & Wilcox.....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail.. 40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail.....40&12½%
Other Brands.....60&10@60%
Sargent's New List.....45@50%
Verree.....30&10@60%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb....@ lb 40c
3 to 5 lb.....@ lb 35c } 75@80%
Over 5 lb.....@ lb 50c
Wilkinson's Smiths....9½c@10c@ lb

Hammock Ropes—

Covert Mfg. Co.....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@ 50&10&10%
Door or Thumb:

Nos.....	0	1	2	3	4
Per doz.....	$ .90	1.00	1.05	1.25	1.50

80&10@50%
Drawer Handles.....60%
Ring Handles.....70%
Roggin's Latches.....50&10@60%
Shelf Box Handles.....60%
Trunk Handles.....60%
Tub Handles.....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed.....50&10@66⅔&5
Japanned, with Nuts.....$1.65
Japanned, with Plate.....$1.10
Japanned, without Plate.....88c

DOOR PULL—

Bar.....60@60&10%
Barn Door.....50&10%
Chest and Lifting.....60@60&10%
Drawer Pulls.....80&10@60%
Plain B. M.....60@60&10%
Push Plates, Sargent's List..60@60 &10%
Sash Pull Plates.....70&10%
Sash Pulls.....60&10&10%
Window Pulls.....66⅔&5

WOOD—

Auger, assorted.....@ gr. $2.25@2.50
Auger, large.....@ gr. $2.00@2.25
Auger, Douglass', Pat. @ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 25/8.....40%
Auger, Swan's, Pat. @ set, No. 3, $1.00; No. 4, $1.25.....35&10%
Brad Awl.....@ gr. $1.75@$2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted.....@ gr. $1.25@1.40
Firmer Chisel, Apple ass'd @ gr. $2.25@2.50
Firmer Chisel, Apple large @ gr. $2.75@3.00

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Firmer Chisel, Hickory ass'd ₩ gr. $3.00@3.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $3.00@3.25
Hammer, Hatchet, Axe, Sledge, etc. 50&2%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane 40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

BOSS-CUT SAW HANDLES—
Atkins 40%
Boynton' Loop Saw Handles, 50c. 60%
Champion 45@45&10%
Sensible ₩ dos. pr. $5 60%

Hangers—
Barn Door, old pattern 60&10@60&10&10%
Barn Door, New England. 70@70&10%
Barry, $3.00 50&10%
Best Anti-Friction. 30&10@60&10&5%
Challenge, Barn Door 50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00 70&10%
Cronk's Steel cov'd Loose Axle. 60&20%
Davis Parlor Door 50@50&5%
Duplex (Wood Track) 60&10&5%
Kidder's 60@60&10%
Lanes Barn Door:
Covered 60&10%
No. 50 60&5%
New Model 40&10%
Parlor, Standard 40&10%
Standard 60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $18.00, ₩ dozen pairs 60&10%
Nansen Roll-Bearing Hanger. 60&10%
Reed's Steel Arm 60%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c. 40%
Richards' Single Track, Steel. 50&10%
Star 50&10&10%
Stearns' Challenge 50@50&5%
Sterling's Impr'd. 60&10@60&10&10%
Stowell Barn Door:
Badger 60&10%
Climax 55&5%
Interstate 60&15%
Magic 50&10%
Matchless Covered 60&10%
Wild West 50&5%
Zenith 50&5%
Baggage Car Door 33⅓%
Elevator 40%
Railroad 55&5%
Terry Ideal 60&10%
Terry's Modern 60%
Terry's Modern, Covered 60%
Terry's Safety 60&5%
Terry's Solid 60&10&10&5%
Terry's Wrought 60&10&10%
The Boss 60&10@60&10&5%
Universal Anti-Friction 40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00. 60&10&2½%
Warner's Pat. 30&10&10%

Harness Snaps—
See Snaps.

Hasps and Staples—
McKinney's "Perfect," $1.10 ₩ dos. 40&10%
Wrought 65&10@55&10&5%

Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers. $6.00@$6.25
Wadsworth's 40&5@40&7½%

Hedge Shears—
Wm. Wilkinson & Sons 50%

Hinges—
WROUGHT IRON HINGES—
Corrugated Strap and T. 75@75&5%
Rolled Blind Hinges Nos. 32 and 34 50&10@60&10&5%
Rolled Plate, Rolled Raised 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb., 5c. 14 to 36 in. ₩ lb., 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb. 2½c; 14 to 30 in., ₩ lb. 2½c; 32 to 36 in., ₩ lb. 3c
Strap and T 75@75&5%

SPRING HINGES—
Acme 60@10%
American 20%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ₩ gr. $12.00
Geer's Spring and Blank Butts. 40%
Gem 30&10%
Zeil's American 30%
Matchless No. 10 70%
New Idea, No. 1, ₩ gro. $7.50
New Idea, No. 2, ₩ gro. $13.00
Oxford 30&10%
Rex ₩ gr. $12.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal 75&10%
Japanned Surface, Single 70&10%
Japanned Surface, Double 60&10%
Mortise 55%
Model 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 30%
Union Mfg. Co. 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $12.00

GATE HINGES—
Automatic ₩ dos $12.50, 50%
Common Sense ₩ dos pair $4.50, 50%
Clark's Nos. 1, 2, 3 70&10&5%
Long's Self Closing 50%
N. E. ₩ doz $7.50 60@60&10%
N. E. Reversible ₩ dos $5.60 60@60&10%
N. Y. State ₩ dos $4.90 60@60&10%
Reed's Latch and Hinges ₩ dos $13.00, 50%
Seymour's 45&10%
Shepard's Nos. 1, 2, 3. 60&10@60&10&5%
Western, ₩ dos $4.20 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 50&10%
Nos. 40 and 50 30%
Huffer 65%
Parker 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 12 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter 30&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 30&10&5%
Champion Gravity Locking, No. 75 30&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5, 30&10%
Tip Pattern, Nos. 1, 3 and 5, 30&10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 10½ 30%
Niagara Gravity Locking, Nos 1, 3 and 5 30&10%
Noiseless, Nos 50, 60, 65 and 55. 30%
O. S. Lull & Porter 30&10&5%
Pioneer, Nos. 060, 45 and 5½ 75&5%
Steamboat Gravity Locking, No. 10 30&10&5%
Stenger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ dos. sets $1.80 40&10%

Hitching Cords—
Covert Mfg. Co. 45%

Hoes—
HANDLED—
Crescent Cultivator, 6 in. ₩ dos. $3.50 net
Crescent Cultivator, 7 in. ₩ dos. $3.75 net
Crescent Double-Bit ₩ dos. $4.00 net
Crucible Cut-Easy ₩ dos. $4.50 net
Cotton 30&12½%
Dunlap's Boys', Ladies', Toy 30%
Garden 75&20%
Mortar 75&25%
Iowa Crucible Socket 75&20%
Magic ₩ dos $4.00
Mattock Hoe ₩ dos. $3.75 net
Planter's 30&15%
Texas Cut-Easy ₩ dos. $4.25 net
Warren Hoe 60&10%

EYE—
American Axe & Tool Co. 70%
Grub 70&10@75&5%
Lane's:
Crescent Planters Pat. 45&5%
Razor Blade, Scovil Pat. 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil 20@30%

Hog Rings and Ringers—
Hill's:
Rings ₩ gr. boxes. $3.00@$3.25
Ringers ₩ dos. 50@55c
Kohlers, Horse Nail, Ringers. ₩ doz. $9.00
Perfect Rings ₩ gro. $7.00@$7.50
Perfect Ringers ₩ doz. 85c

Hollow Ware—
IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware 40&10%
Peerless Enameled-Ware 70&10%
Crystal Steel-Ware 50&10%
Blue and White-Ware 10&10%
White-Ware 25&10%

STOVE HOLLOW-WARE:—
Ground 60&10&10@70%
Unground 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans 63⅓@65%
Maslin Kettles 75&5@75&10&5%
Tinned Boilers and Saucepans 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co. 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co. 40&5%
Reed & Barton 40&5%
Rogers & Brother 40&5%
Simpson, Hall, Miller & Co. 40&5%
William Rogers Mfg. Co. 40&10%

Hooks—
BUSH—
Jennings & Griffin's 40&10%
Light ₩ dos. $5.00; Medium ₩ dos. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list 60&10&10%
Bird Cage, Reading 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list 50&10%
Chandelier 70%
Clothes Line, Sargent's list 50&10%
Coat and Hat, Sargent's list 50&10%
Coat and Hat, Reading 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list 60@60&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ₩ dos $1.35
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ dos. 60c
Picture, T. & S. Mfg. Co. 75%
Tassel, T. & S. Mfg. Co. 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in. ₩ dos. $2.20 net
10 in. ₩ dos. $2.70 net

WIRE—
Atlas Coat and Hat 50&10%
Belt 30@30&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ dos. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks 60&30%
Dunlap's Merchandise 25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ₩ lb 4½c

Horse Nails—
	Nos. 6	7	8	9	10
A. C.	28c	28c	28c	21c	21c.

40&10%
American, all sizes, 9½@10c net
Ausable 28c 28c 25c 24c 23c. 40&10&5%
Anchor 23c 21c 20c 19c 18c 40%
C. S. K. 25c 23c 22c 21c. 21c 40%
Capewell 19c 18c 17c 16c 16c. 10&5%
Champlain. 23c 23c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 16c 15c 14c. 30&10&5%
Empire Bronsed 10c
Essex 28c 28c 28c 24c 23c. 40&10@50%
Lyra 9½c 9½c 9½c 9½c 9½c., net
Maud S. 25c 23c 22c 21c. 21c 40&10&5%
Northw't'n. 28c 28c 28c 21c 20c. 25@25&5%
Putnam 23c 21c 20c 19c 18c 25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan 23c 21c 20c 19c 18c 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co. 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" 50&10&5%
"Imperial" 30&5%
Competition 75@75&10%
Extra 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para 40&10%
Reliable 50&10%
Stable 60&10%
Standard 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick ₩ gr $9.00 net
Crown net
Dunlap's:
No. 1 $3.50 per doz 20%
No. 20 $12.00 per doz 20%
Gem Ice Shave net
Parker's:
Ice Box Chisel ₩ dos. $12. 0
Ice Crusher, No 3, ₩ dos. $3.00
Ice Crusher, No. 2, ₩ dos. $6.00
Ice Crusher, No. 1, ₩ doz. $2 .00
Ice Tools ₩ dos. $4.00
10&5%
Sargent's Ice Awls 55%
Star net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $6.00 35%
No. 34 ₩ dos. $15.00 25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain 15@20%
Spun Brass, plated inside with White Metal 10@15%

Knives—
Ames':
Bread Knives, ₩ dos. $1.50 20@35%
Butcher Knives 25@35&10%
Shoe Knives 25@30%
Dunlap Kitchen and Bread Knives 25%
Foster Bros.' Butcher, &c. 40%
Goodell's:
Bread Knives Ass'n list net
Butcher net
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 30%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives 35@35&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr. $1.35@$1.50
Carriage, Jap ₩ gro. 80c, 60&10%
Door Knobs, Hemacite 50&10%
Door Mineral ₩ dos. 55@60c
Door Por. Jap'd ₩ dos. 65@70c
Door Por. Nickel ₩ dos. $1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite 50&10%
Picture, Judd's 50&10&10%
Picture, Sargent's 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Lace, Leather—
John C. Hagan & Co.:
Rawhide Side Lace, No. 1 ₩ ft. 18c
Tanned Side Lace ₩ ft. 18c
Cut Lacings, ¼ in, ₩ 100 ft. $1.00
Cut Lacings, 5/16 in., ₩ 100 ft. $1.25
Cut Lacings, ⅜ in, ₩ 100 ft. $1.50
Cut Lacings, ½ in., ₩ 100 ft. $2.00
Cut Lacings, ⅝ in., ₩ 100 ft. $2.75
Cut Lacings ¾ in, ₩ 100 ft. $3.25
Discount from list, 60%

Ladles, Melting—
Monroe's Pat. ₩ dos $4.00, 40%
P. S. & W. 35&10@40%
Reading 50&10%
Sargent's 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ dos. list $30.00
No. 18 Buhl Side Lever, ₩ dos. list $7.50
No. 10 Buhl Improved Regular, ₩ dos. list $7.00
No. 20 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ dos. list $10.00
No. 2 0 Buhl Dash Reflector, No. 2, ₩ dos. list $17.00
Discount 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion 75&10%
Clipper Improved 50&10&10&5%
Continental 60&10%
Enterprise 40%
Genuine Philadelphia Mowers:
Styles M., S., C., K., T. 70&10%
Style A., (all steel) 60&10%
Style E., Low Wheel 60&10%
Style E., High Wheel 70&10%
Drexel, low list 50%
Gold Coins, low list 50%
Great American 70&10%
Imperial 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel, 75&10%
New Easy 60&10@60&10&10%
New York 60&5%
Pastime:

12 in.	14 in.	16 in.
$6 00	$6.25	$6.50 each net

Pennsylvania 60&10%
Rapid Transit 70&10&10%
Standard 60&5%
Sunbeam 60&10%

Lawn Sprinklers—
Enterprise 25%
Gibbs' Arc ₩ dos. $10.00
Gibbs' Hustler ₩ dos. $5.00

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Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1, No. 2, No. 3,
₩ doz. $12.00 $15.00 $24.00..35%

Lemon Squeezers—

Berger Bros. ₩ doz. 8-in. $1.00; 10-in. $1.40.....20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.35 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.00
Jennings' Star...₩ doz. $1.90@$2.00
Little Giant.....50@50&5%
Porc. Lined, Iron.....$3.25@$3.50
Porc. Lined, Wood....₩ doz. $6.00 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—

Name Door Plate.....50@50&10%
Name Plate.....70%
Number Door Plate.....60@60&10%
Sargent's.....60&10@70%

Levels—

C. E. Jennings & Co.'s:
Hexagon.....25&10%
Iron Bench, new design....25&10%

Lifters—

See Transom Lifters.

Lines—

Cotton and Linen Fish, Draper's.50%
Cotton Chalk, 20 feet.....60&10%
Cotton Trot.....33⅓%
Masons':
Colored Cotton.....40&10%
Flax.....40&10%
No. 0 to 5.....25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50.....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro.....25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz.$7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &C.—

Barnes Mfg Co.....40@40&10%
Branford Lock Co.....net prices
Brooklyn Latches.....50&10%
Champion Night Latches.....40%
Dietz Flat Key.....30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co.....60&10%
Plate.....33⅓%
R. & E. Mfg. Co.....60&10@70%
Reading Hdw. Co.....60@60&10%
Romer's Night Latches.....20&5%
Sargent & Co.....60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch.....35&5%
All other Night Latches.....40%
Yale.....net prices

CABINET—

Barnes Mfg. Co.....40@40&10%
Dietz:
Nos. 28 to 39.....40%
Nos. 41 to 78.....45%
Nos. 87 to 96.....30%
Eagle Lock Co.....45&5%
Charles Parker Co.....45&5%
Romer's.....35%
Stoddard Lock Co.....30@33⅓%
Yale.....45&5%

PADLOCKS—

Acme Bicycle and Satchel per doz. $9.00.....40%
Ames Sword Co.....40%
Barnes Mfg. Co.....50@50&10%
Champion.....40%
A. E. Dietz.....40%
Eagle.....40%
Eureka, Eagle Lock Co.....40&5%
Gem, Corbin's.....40&5%
Romer's Nos. 0 to 21.....40&5%
Scandinavian.....90&40@90&40&10%
Smith & Egge Bicycle.....50%
Wrought Iron.....75@80%
Yale Lock Co.....net prices

TRUNK—

Corbin's.....25%
Eagle.....25%

Mallets—

Sargent's List
Hickory.....50@25&10%
Lignumvitæ.....50@25&10%
Raw-Hide.....40&10%

Mattocks—

Regular list.....70@70&10%

Meat Cutters—

American.....30%

Nos.	1	2	3	4	B	5
Each	$5	$7	$10	$25	$50	$60

Beef Shavers (Enterprise).....30%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00
Dixon's.....₩ doz 33⅓%

Nos.	1	2	3	4
	$14	$17	$19	$30

Enterprise.....25%

Nos.	10	12	22	33	43
Each	$3	$2.50	$4	$6	$15

Hales Pattern ₩ doz.....70@70&5%

Nos.	11	12	13
	$27	$33	$45

Home No. 1..₩ doz $26.....60%
Little Giant.....50&10%

Nos.	305	310	312	320	322
	$35	$48	$44	$72	$68

Miles' Challenge ₩ doz...45@45&10%

Nos.	1	2	3
	$32	$30	$40

Perfection.....net
Woodruff's ₩ doz.....33⅓%

Nos.	100	150
	$15	$18

Meat Juice Extractors—

Enterprise.....25%

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ ℔..25c
No Name.....₩ ℔..15c
Mystic.....₩ ℔..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ₩ doz.$12.00

Motors—

COFFEE MILL—

Specialty Novelty Co.....each $5. 0

Nails—

WIRE AND CUT NAILS—

See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....85%
Wire Nails.....85%

PICTURE—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list..40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze.....10%
China.....25%
Fire-Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....₩ doz $18.00, 20%
National.....₩ doz. $24.00, 40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point₩ gr.$12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6.30
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.65
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable, Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ₩ ℔.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ ℔..... .50
No. 1..... .40
No. 2..... .30
Pike's Washita Round Edge Slips: 3 to 5x1¼ to 3⅜ to ⅝ at back, ⅛ to 5-16 edge ₩ ℔:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ₩ ℔..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ₩ doz.....$12.00
7x2, " 11.00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 3x2x⅝ to 1¼, ₩ ℔..... .24
" 3x2x⅛, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston".....60%
"Excelsior" Self-Vulcanizing, per ℔ 70c.....40%
Boston "Phœnix" Red Sheet, per ℔..... 50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing.....9c@10c ₩ ℔
Cotton Packing.....14c@15c ₩ ℔
Italian Packing.....13c@14c ₩ ℔
Jute.....6c@7c ₩ ℔
Russian Packing.....13c@14c ₩ ℔

Padlocks—

See Locks.

Parers—

APPLE—

Advance.....₩ doz $4.50
Baldwin.....₩ doz 5.00
Bonanza.....each 5.00
Daisy.....₩ doz 3.50
Dandy.....each 7.50
Eureka, 1888.....each 16.00
Family Bay State.....₩ doz 12.00
Favorite.....₩ doz 5.00
Gold Medal.....₩ doz 4.00
Ideal.....₩ doz 4.00
Improved Bay State.₩ ds..$27@30.00
Little Star.....₩ doz 4.00
Monarch.....₩ doz 12.50
New Lightning.....₩ doz 5.50
Oriole.....₩ doz 4.00
Penn.....₩ doz 3.00
Perfection.....₩ doz 4.00
Reading, 73.....₩ doz 4.00
Reading, 78.....₩ doz 7.00
Rocking Table.....₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable.....₩ doz 4.50
Victor.....₩ doz 12.50
Waverly.....₩ doz 3.75
White Mountain.....₩ doz 4.00

POTATO—

Saratoga.....₩ doz 5.50
White Mountain.....₩ doz $4.50

Pencils—

Dixon's:
Carpenters'.....₩ gr. $2.25@7.75
Carpenter, Blue or Red Lead.....₩ gro. 4.00@7.50
Lead.....₩ gro. 2 15@4.88
Lumber.....₩ gro. 6.87
Mascot, Hexagon.....₩ gro. 4.75
Mascot, Round.....₩ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—

Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting..... 25%
C. E. Jennings & Co., Iron...50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's.....50&10%
Miscellaneous.....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle"..... Ohio..... Sandusky..... } 60&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....20&5@25%

Pliers and Nippers—

Button's.....70@70&10%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70@70&10%
Fencing Pliers, ₩ doz $12.00...25%
Flat and Round Nose.....33⅓%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....30%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10%
Stanley's.....75&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $35.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....₩ ℔ 8c
Joseph Dixon's.....₩ gro $5.75, 10%
Gem.....₩ gro $4.50, 10%
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Poppers, Corn—

Round or square,
1 qt., ₩ doz. $.75; ₩ gr. $6.50
1½ qt. ₩ doz. $.85; ₩ gr. $8.00 } 10@15%
2 qt., ₩ doz. $1.15; ₩ gr. $12.00
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—

Kohler's:
Little Giant, No. 12...₩ doz. $12 00
Hercules, No 25.....₩ doz. $11.00
Invincible, No. 6.....₩ doz. $10.00
Pioneer, No. 714.....₩ doz. $ 9.00
Lock Lever, No. 10...₩ doz. $12.00
Universal, No. 49.....₩ doz. $ 4.00
New Champion, No.37 ₩ doz. $ 7.00
Iron Handle, No. 38...₩ doz. $ 5 00
Ryan's.....₩ doz., $30.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Cronk's Heavy Pattern, ₩ doz., $2.50 net
Disston's Combined Pruning Hook and Saw...₩ doz $18.00, 25@25&10%
Disston's Pruning Hook.....₩ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....₩ doz $3.50, 30%
Henry's Pruning Shears ₩ doz $3.50@$3.75
Kohler's Pruning Shears:
German, No. 46.....₩ doz. $3 50
American, No. 33.....₩ doz. $2.50
E. S. Lee & Co.'s Pruning Tools.40%
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$2.50@2.75
Waters Tree Pruners..... 75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $12.00, 25&10%

Pulleys—

Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@10&60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%

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Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $13.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....60&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%

F. E. Myers & Bro.:
No. 1, Fig. 398, 3 in. Shallow Well Pump.....$13.00
No. 5, Fig. 398, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig. 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14, Fig. 531, 3 in. Deep or Shallow Well Pump.....$15.00
No. 22, Fig. 532, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 381, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 382, 3½ in. Shallow Well Pump.....$17.00
No. 70, Fig. 383, 2½ in Deep Well Pump.....$15.00
No. 72, Fig. 383, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 383, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 443, 3 in. Lift Pump.....$10.00
No. 103, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 235, Fig. 389, Windmill Pump.....$12.50
No. 260, Fig. 402, Windmill Pump.....$12.50
No. 265, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 403, Regulator Pump.....$30.00
No. 280 Fig. 484, Imperial Cyclone Pump.....$18.00
No. 285, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 287, Fig. 488, Geyser Tank Force Pump.....$17.00
No. 288, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 320, Fig. 493, Bucket Spray Pump.....$5.50
No. 330, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@5%
Check.....55%
Spring.....50&5%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&5%

Rail—

Barn Door, Light, In.	¼	⅝	¾
Per 100 feet	$1.40	1.55	1.80

Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:

	Small.	Med.	Large
Per 100 feet..	$1.80	2.00	2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2¼c
Common.....₩ foot, 2¼c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $3.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron, ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft. 5½c
Sliding Door, Wr't Brass, 1½ in. ₩ ft., 20c.....30&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot, 60&10&2½%

Rakes—

Cast Steel, Association goods.75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.80
Boss, Garden, 18 teeth, net ₩ doz. $3.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.20
Lawn Rake.....₩ doz. $4.75
Kohler's:
Lawn Queen, net ₩ doz. $3.25@$3.40
Lawn Queen, Impr'd, net ₩ doz. $3.35@$3.50
Catch All...net ₩ doz. $3.15@$3.25
Jumbo.....net ₩ doz. $7.00@$9.00
Paragon....net ₩ doz. $2.85@$3.00
Malleable.....70&10@75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....30%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

HOT AIR—
Ferosteel new list, 1877:
Black Japanned.....40&10%
White Japanned.....30&10%
Bronze-plate l.....40%
Nickel plated.....40&10%
Stowell's old list:
Japanned.....80&10%
Nickel-plated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....80%
Thousand, in bulk.....80&5%
Thousand, in papers.....80&5%
Coopers, in bulk.....80%
Block, and Carriage in papers.80%
Hame.....80%
Belt with burrs, tinned or copper.....75%

Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10& 10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope—

Cotton Rope, Best, ¼ in. and larger.....₩ ℔ 13 @14c
Medium, ¼ in. and larger.....₩ ℔ 10 @12c
Common, ¼ in. and larger.....₩ ℔ 8½@10c
Jute Rope.....₩ ℔ 5½@5½c
Manila:
7-16 in. and larger.....₩ ℔ 6½c
⅜ in.....₩ ℔ 7 c
¼ and 5-16 in.....₩ ℔ 7½c
Hay Rope, Med.....₩ ℔ 6½c
Sisal, ⅜ in.....₩ ℔ 6 c
¼ and 5-16 in.....₩ ℔ 6½c
7-16 in. & larger.....₩ ℔ 5½c
Med. L'th Y'rn.....₩ ℔ 5 c
Hay Rope.....₩ ℔ 5½c

Rules—

Athol, Steel.....33⅓%
Boxwood.....80&10&10&10%
Ivory.....50&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60&10%
Starrett's Rules and Straight Edges, Steel.....35&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....3½@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¾c
COLD HANDLED—
Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.50
No. E 50, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4.00
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.50
No. E 55, plain polished, size 1, 2 or 3 without handles, ₩ doz. $3.50
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$7.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.37
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.25
No. E 65, plain polished, size 4, with "best" handles.....$8.80
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$3.50
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $33.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 30@3¼c

Safety Lifts—

Burr Mfg. Co., Steel.....50&10%

Sand and Emery Paper and Cloth—

Baeder-Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@30&5%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia.....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@9c
Common Russia Sash.₩ ℔ 12½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 33c
"Samson" Braided Linen, ₩ ℔ 56c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White, ₩ ℔ 50c. 35@40%
B Quality, Drab, ₩ ℔ 35c..... 15@15&7½%
B Quality, White ₩ ℔ 30c..... 15@15&7½%
White Cotton Braided, ₩ ℔ 31c@33c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....75%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze. Barnes Mfg. Co...60%
Elting's Ventilating.....40@70%
Fitch's.....70&10%
Gale's Automatic, List, Nov., '97.65%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $36.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50@50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....60@60&10%
Cross Cut.....40%
Gang.....50@50&10%
Hand, Panel and Rip.....40&10%
Wood.....40&10%
Disston's:
Circular.....50@50&10%
Cross Cuts.....45%
Gang.....50@50&10%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip..... 25&10%
Richardson:
Circular and Mill.....50@50&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%
HACK SAWS AND FRAMES—
Chatillon.....30%
Griffin's:
Complete'.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. .$3.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets, ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz.....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....35@35&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $9.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $32.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@$18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$3.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '93.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $2.00.....40&10%
Box, 1 Handle.....₩ doz., $2.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool Co.....10%

Screens—

DOORS—
Phillips:
Empire Fancy.....50%
Fancy Pine.....40%
Painted.....60@60&5%
Stained.....60&5%
Standard Oil.....50&10%
WINDOW—
Phillips:
Bonanza Screens.....60&10%
Flyer.....60&10%
Perfection Screens.....60&10%
Window Screen Frames....60&10%
Stearns':
Frames and Corners....35@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....50@50&5&10
Pat. Excelsior.....50&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....35&10%
Wm. Johnson's:
135 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
143 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits....₩ doz., 60@75c
Screw-Driver Bits, Parr's ₩ gro. $6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....35%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C. T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—
Brass, Flat Head.....57½&10%
Brass, Round Head.....35%
Bronze, Flat Head.....35&10%
Bronze, Round Head.....35%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Dowel Screws.....35%
Drive Screws, Rogers'.....90%
Iron, Bright Flat Head.....57½&10%
Iron, Br't R'd & Oval Head.....35%

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Iron, Forged Flat Head.....87½&10%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Side Knob Screws.....8½%
Silver Plated, Flat Head.....80%
Silver Plated, Round Head.....60%

MACHINE—
List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....80%

COACH, LAG AND HAND RAIL—
Coach. List, Feb. 14, 1895.....82½%
Hand Rail.....82½%
Lag Screws. List Jan. 20, 1895. 20&10&5@35%

BENCH, HAND, ETC.—
Bench, Iron, ₱ doz., 1 in., $2.75; 1¼, $3.00; 1½, $3.50
Bench, Wood, Beech, ₱ doz $2.00@2.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....60&10%

Scroll Saws—

Barnes' No. 1, $3; No. 6, $10; No. 7 $15.....35%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....30%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—

Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—

Raisin, Enterprise.....35%

Shaft Couplings—

Bradley's:
Buggy, No. 8, ₱ Set.....$2.25
Surrey, No. 9, ₱ Set.....$2.60

Shears—

Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....30&20%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs, ₱ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc.60&10&10@70&5%
Tailor's Shears.....40@40&5%
Tinners' Snips.....40@ 0&3%
Pruning. See Pr'ning H'k& Shears.
Seymour's List, Dec., 1851.
60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—

SLIDING DOOR—
Corbin's list.....60&10&5%
Hatfield's Pattern.....70&10@50%
M. W. Co., list July, 1892.50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895.
50&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....30&5%

SLIDING SHUTTER—
Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—

HORSE—
Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Gibbs' Rubber, Pat.....a set, $1.50
Perkins Steel Side Weight Hind $3.15@$3.40
Perkins Improved Snow.....₱ lb 4c
W. & B. Rubber Pad....₱ set, $2.50

MULE—
Add 50c ₱ keg to above prices.

OX, WROUGHT—
Ton lots.....₱ lb 9c
1000 lb lots.....₱ lb 9½c
500 lb lots.....₱ lb 10c

Shot—

See Ammunition.

Shovels and Spades—

O. Ames & Sons:
C.S. Edge.....60@71½%
Pat. Cast Steel.....71½@10%
Blair's Cast Steel.....5%
Bouve's Steel 10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....5%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—

Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—

Hunters' Genuine, ₱ gross, $10@11.50

Sign Letters, Figures, &c.—

Aluminum S. & N. Co.:
Sign Letters and Figures.....60%
Door Plates.....60%
Trade Checks.....40%

Skate Sharpeners—

Eureka...₱ doz. $1.75; ₱ gro. $18.00

Slaw Cutters—

Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₱ gro. $15.00@$18.00
2 Knives.....₱ gro. $20.00@$27.00
Kraut Cutters.....50@50&10%
Woodrough & McParlin.....40%

Slicers—

Vegetable, Enterprise.....25%

Snaps, Harness, &c.

Anchor (T. & S. Mfg. Co).....65%
Cookeyes.....70&10%
Covert Mfg. Co.....45&2@50%
Fitch's:
Bristol.....40&10%
Champion.....40&10%
Clipper.....10&10&5%
Empire.....10&3%
National.....10&5%
Victor.....10&5%
German, new list .40&10@40&10&10%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%
Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector
Double for Bits or Trace Carrier
Loop Eye
Loop Eye, Swivel
Open Eye
Round Eye
Round Eye, Swivel
} 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—

Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₱ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....20%
Wood, 2nd Quality.....33⅓%
Wood.....₱ doz. 25&10%

Spoons and Forks—

TINNED IRON—
Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—
4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—
Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
28% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—

See Door Springs.

Squares—

Disston's Try Square and T Bevels, 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels....60&10 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&10&10%
Steel and Iron.. }

Stair Rods—

Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—

Barbed Blind—⅛, ⅝, and ¾ inch, ₱ lb.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—

BICYCLE—
Holroyd & Co.....35%

BLACKSMITH'S—
Butterfield's.....35@40%
Gardner.....33⅓&10%
Holroyd & Co.....40@50%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%

PIPE MAKERS—
Holroyd & Co.....75&10@80%

Stones—

See Oilstones.

Stops—

See Bench Stops.

Stove Polish—

See Polish, Stove.

Sweepers—

See Carpet Sweepers.

Tackle Blocks—

See Blocks.

Tacks, Brads, &c.—

List March, 25, '95.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&20@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....90@90&10%
Basket Nails.....8@1%
Bill Posters' and Railroad Tacks:
S. S.....90&10%
Brush Tacks and Nails.....75&15%
Chair Nails.....80&10%
Cigar Box Nails.....80%
Common and Patent Brads.....80%
Finishing Nails.....85%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&2%
Hungarian Nails, Steel.....80&2%
Lace Tacks.....
S.S.....90&20%
Looking Glass Tacks.....60%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Steel, Black.....80&10%
Steel, Tinned.....85%
Upholsterers' Tacks:
Lanc.....80&20%
S S.....90&10&5%

MISCELLANEOUS—
Bill Nye Brad Box.....₱ box $4.00
Bill Nye, Jr., Brad Box..₱ box $2.00
Bonnie Blue.....₱ box $1.50
Can Opener Carpet Tacks.₱ gr. $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks..₱ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓& 10&2%

Tack Pullers—

Columbia, No. 1, per doz., net,....$1
" " 2, " 1.50
Little Jack.....₱ doz. $1.00

Tapes, Measuring—

American.....40&10@50%
Chestermans.....25&2½&5%
Keuffel & Esser Co, New list, 1898: Steel and Metallic.....3½%
Lufkin's Steel and metallic..30&10%

Taps—

American Screw Co.
Machine Screw.....70%
Holroyd & Co.'s:
Blacksmiths.....60@65&5%
Machine Screw.....70&10@75%
Machinists' Hand...60@65&10&10%
Pipe.....85@85&10&5%

Telephones—

Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated—

Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.30
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—

Shears and Snips (P. S. & W.).20&5%
Snips, J. Mallinson & Co.....33⅓%
Snips—"Clauss".....30%

Tinware—

Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&5%

Tobacco Cutters—

National Specialty Co.....40%

Trammel Points—

Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓%
Prentiss'.....30@35%

Tracks, &c.—

F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb., Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₱ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₱ ft.....09
Faultless Steel Frame K. P Pulley, Fig. 435, ₱ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₱ doz.$1.75
Floor Hooks, ¼ in. ₱ doz. 65
Floor Pulley, Wood Sheave, Fig. 436, ₱ doz.....$2.00
Hanging Hooks for Double Steel Track, ₱ doz.....60
Hanging Hooks for Single Steel Track, ₱ doz.....60
Hanging Hooks for Wood Track, 10 in. ₱ doz.....45
Hanging Hooks for Wood Track, 14 in., ₱ doz.....55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₱ doz.$2.00
Malleable Rafter Brackets, ₱ doz.....45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes).$12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₱ doz.....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch. ₱ doz.....$1.75
Single rail Car, Single Steel T.$3.50
Single Rail Steel Track with clamps, ₱ ft.....09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₱ doz.....$1.50
Sure Grip Sling Car, Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₱ doz.....45

Transom Lifters—

Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5@ 0&10%
Crescent.....7@7&10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3, 3 and 304.....₱ 100, $12.00
Shaw's:
Copper Finished.....30&10%
Lever.....70@70&10%

Traps—

GAME—
Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—
Enterprise Mfg. Co., Mole.....15%
Erie Rat.....40@40&10%
Household.....₱ gr $10.00
Hotchkiss:
Metallic Mouse.....₱ doz. 65c
Improved Rat.....₱ gross, $12.50
New Rat.....₱ gross, $12.50
Mouse, Bonanza.....₱ doz 90c@$1.00
Mouse, Catch-'em-alive ₱ doz $3.50,15%
Mouse, Delusion.....40%
Mouse, Ideal.....₱ gr $9.00
Mouse, Round Wire.₱ doz $1.50, 10%
Mouse, Wood, Choker, ₱ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₱ gro., $13.50; No. 2 ₱ gro., $15.00

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Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00
Specialty Novelty Co:
Snap Shot, 2-Hole....₩ gro., $4.50
Snap Shot, 4-Hole....₩ gro., $3.50

FLY-

Balloon, ₩ doz $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $$1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....30%
Disston's:
Brick.....25@35&10%
Plastering.....25@35&10%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Ventilators—

CHIMNEY—

Pancoast's Double Deflector.70&10%

WINDOW—

Pancoast's "Common Sense," ₩ doz. $9.00

Vises—

Solid Box.....30&10@50%

PARALLEL—

Alligator.....30%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....50@50&5%
Fisher & Norris Double Screw15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action.....20@25%
Merrill's.....30&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....40%
Stephens'.....25@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2&3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's..... .....35@40%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Weed Diggers—

"Pastime".....₩ doz. $1.75 net

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

Window Mirrors—

Bayer & Co.'s..... ₩ doz. $24.00 net

Window Stop Adjusters—

Taplin's "Perfection".....50%

Wire and Wire Goods—

Brass Wire.....35%
Bright Wire Goods, Standard list 35&10&1' @90%
Cast Steel Wire.....50%
Copper Wire.....45%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18...80&10@ 80&10&5%
Cop'd, Nos. 0 to 18.....80@80&10%
Galv., Nos. 0 to 18.....80@80&10%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@80%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@ 80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.10@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....30&2½&2% cash
Iron.....20&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....25%

Wire Stretchers—

W. C. Heller's Grip.....₩ dos. $1.50

Wrenches—

Agricultural.....30@30&10%
Aiken's Pocket (Bright)..$2 00@3.20
Alligator.....60@60&10%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's..... 30@30&5%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....15@15&10%
Standard Brace.....15@15&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10 &5&5&3%
Coes' Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe 50%
Lamson & Sessions':
Engineers'..... .....60@30&10%
Standard..... .....70&10%
Lowell:
Lag Screw.....35%
Ratchet..... .....33⅓%
Socket Bridge,.....20%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination..... .....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut..... ...40%
Whitman & Barnes:
Acme ....60@10&5%
All Steel Pipe .....50&10@ 0%
Always Ready.....35@40&10
Bull Dog.....50&10%
Diamond Cycle.....₩ doz $3.00
Drop Forged Engineers.35@40&10%
Hercules. .....70&10@75%
Improved Knife Handle Pipe 60@60&5%
Machinis's' Knife Handle.50&10 @50&10&½%
Regular.....50&5@ 0&10&5%
J. H. Williams 35%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 2%
Colby Wringer Co., list May 1, 1894, 2%
Lovell Mfg. Co., list July 2, 1894...2%
National Wringer & Mfg. Co., list Jan. 1, 1895.....2%
Peerless Mfg. Co., list Feb., 1892...2%
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....44c
Linseed, City, Boiled, in barrels ₩ gallon.....46c
Out of Town on Spot..₩ gal.....44c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 38@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$28.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....5c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 8@8½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@——c
In machine bbls.....35@——c

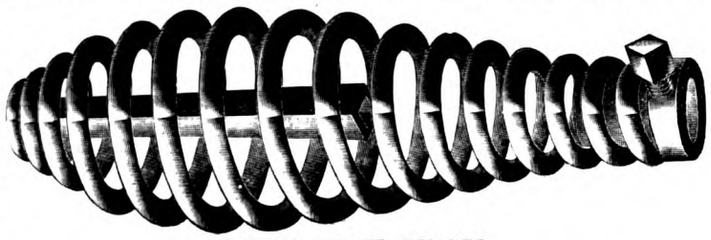
Dry Colors—

Blue, Chinese.....₩ lb 37 @40
Blue, Prussian.....₩ lb 30 @35
Blue, Ultramarine..₩ lb 8 @25
Sienna, Italian, burnt & powd red ₩ lb 3½@5 c
Sienna, Italian, raw & powdered...₩ lb 3 @4½c
Umber, Turkey, burnt.....₩ lb 2½@3½c
Umber, Turkey, raw.....₩ lb 2½@3 c
Green, Chrome, Common.....₩ lb 5 @12 c
Green, Paris, in bulk, ₩ lb 11½@12½c
Indian Red, American.....₩ lb 2 @ 3 c
Indian Red, English.....₩ lb 4½@8

Colors in Oil—

Black Coach Japan ₩ lb..18½@20
Black Coach Japan, in Oil.....₩ lb 12 @18 c
Black Drop.....₩ lb 7 @10 c
Black Lampblack...₩ lb 20 @33 c
Black Lampblack, common .....₩ lb 7@15 c
Blue, Chinese.....₩ lb 35 @40 c
Blue, Prussian .....₩ lb 20 @40 c
Blue, Ultramarine..₩ lb 12 @18 c
Brown, Sienna, bur't ₩ lb 8 @12 c
Brown, Sienna, raw. ₩ lb 8 @12 c
Umber, burnt.....₩ lb 7 @10 c
Umber raw.....₩ lb 7 @10 c
Brown, Vandyke....₩ lb 7 @12 c

ALASKA SOLDERING IRON HANDLE



FITS ANY IRON.

Want to see one? Send us 25c. We will mail you one.

. . . ALWAYS COLD.

Sold by all Jobbers in Hardware or Plumbing.

Made only by . . . .

TROY NICKEL WORKS,

ALBANY, N. Y.

"CANNOT FAIL TO HELP OUR BUSINESS."

J. C. Tanger & Co., Hanover, Pa.: Please find $1 enlosed for one year's subscription. After examining a specimen copy, we think it one of the best, and that it cannot fail to help us in our business.

"TOO VALUABLE TO BE WITHOUT."

Charles T. Mitchell, Baltimore, Md.: HARDWARE is too valuable to be without.

"USEFUL AS AN ADVERTISING MEDIUM."

Smith & Egge Mfg. Co., Bridgeport, Conn. [*Traps, Locks, Chains, Pulleys, etc.*]: We have found your paper very useful as an advertising medium.

"A GOOD REPRESENTATIVE OF THE TRADE."

Warwick Cycle Mfg. Co., Springfield, Mass. [*Bicycles*]: We have always considered HARDWARE a good representative of the Hardware trade.

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N F C.

AMERICAN



BRAND

Teeth: Sharp & Strong.

Temper: Thorough.

Material: The Best.

Our factories exist in reality and are as represented.

We do not make use of Flash Advertisements to introduce Novelties.



MAIN OFFICE AND ADDRESS
NICHOLSON FILE CO.
PROVIDENCE R.I. U.S.A.
CABLE ADDRESS NICHOLSON PROVIDENCE, U.S.A.
A.B.C. CODE, 4TH EDITION

We are not kept busy Shipping Samples in order to get our brands tried

We do not advertise as a "Patent Improved" File something that has been known and used for over 30 years.

Superior to other So-Called Improved Files.

GREAT WESTERN



BRAND

N F C.

Made in the American and Great Western Branch Factories of the

NICHOLSON FILE CO.,

HEAD OFFICE,

PROVIDENCE, R. I., U. S. A.

5 FACTORIES. . . .
76,800 DAILY PRODUCTION.



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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS, BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, ETC.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

Main Office and Works, No. 240 North Union St., Chicago, Ill., U. S. A. Eastern Office, No. 284 Pearl St., New York.



THE NEW HAMMOCK.
PALMER'S UTOPIA.
—POSITION EASILY CHANGED—

THE NEW HAMMOCK . . . PALMER'S UTOPIA.

We still lead the world in variety of colors, styles and sizes in our elegant lines of

Send for 1898 Catalogue.

PERFECTION AND ARAWANA HAMMOCKS.

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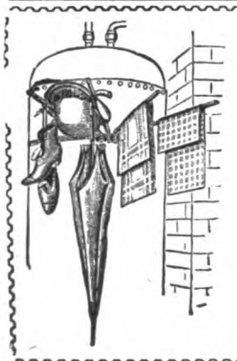


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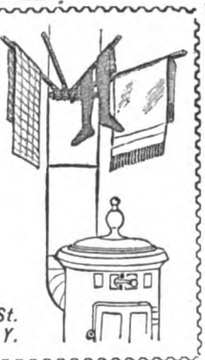
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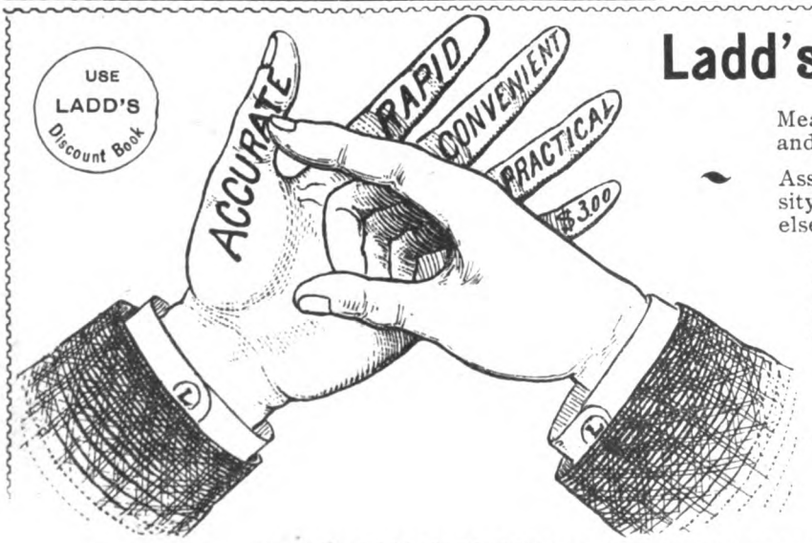
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Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Geo. W. Nock, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Troy Nickel Works, Albany, N. Y.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Miner & Peck Mfg. Co., New Haven, Ct.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Watereury Farrel Foundry & Machine Co., Waterbury, Conn.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes.

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York
John Sommer's Son, Newark, N. J.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Model Making.

Schwerdtle & Siebert, Bridgeport, Conn.
T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
Schwerdtle & Siebert, Bridgeport, Conn.
J. K. Williams, Akron, Ohio.

Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster Pa.

Nuts.

Union Nut & Bolt Co., New York.

Office Railings

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.

Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.

Cushman & Denison, New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co, Bridgeport, Conn.

Oil Stones.

Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.
Stewart Iron Works, Cin'nati, O.

Ovens.

Monarch Stove Co., Manafield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Paints.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

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Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

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Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
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Tower & Lyon, New York.

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F. E. Kohler & Co., Canton, Ohio.

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New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

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Prismatic Sidewalks.

Stewart Iron Works, Cin'nati, O.

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Burr Mfg Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
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Boston & Lockport Block Co. Boston and Lockport, N. Y.

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H. B. Rusler, Johnstown, Ohio.
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Stewart Iron Works, Cin'nati, O.

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Magnolia Metal Co., New York.

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McKinney Mfg. Co., Allegheny, Pa.

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Enterprise Mfg. Co., Philadelphia.

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See Traps.

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Eclipse Refrigerator Works, Burlington, Vt.
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Root Bros. Co., Plymouth, Ohio.

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Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
U. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York,
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Berlin Iron Bridge Co., East Berlin, Conn.
Stewart Iron Works, Cin'nati, O.

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N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
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Steel Hinges, Spring.
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Stove Trucks.
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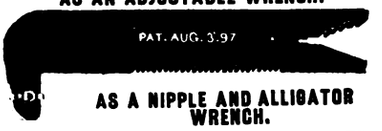
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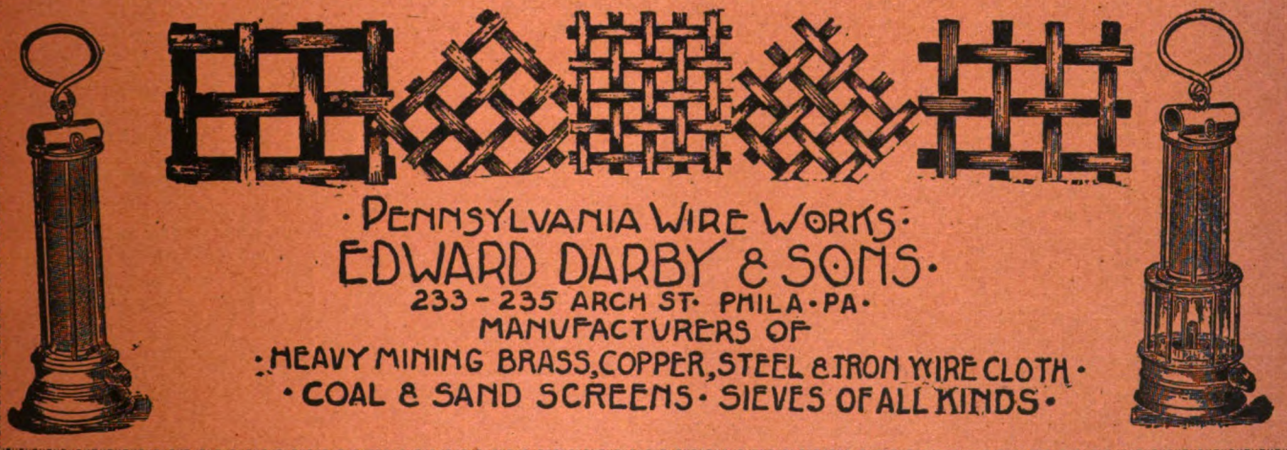
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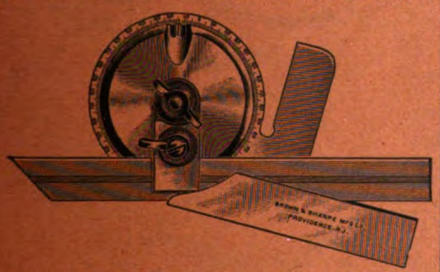


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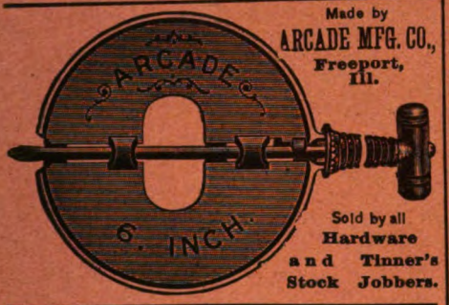
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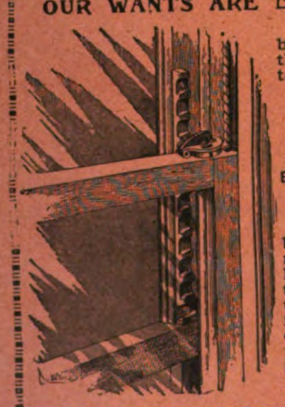
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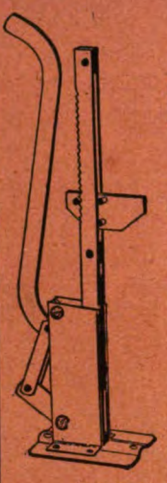
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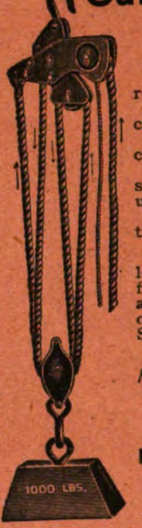
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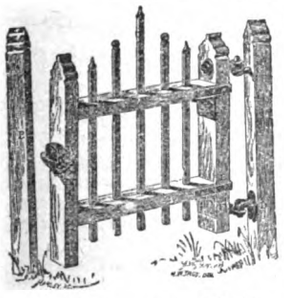
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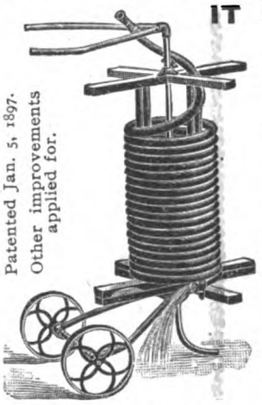
Their One Fault :~~
They Won't Wear Out!

Simple, Durable and Cheap. Arranged to work without any spring, on its own Automatic principles. Send for descriptive circular and prices. . . . . .

Manufactured by The Burr & Houston Co.,
33 to 39 Franklin Street, - - - BROOKLYN, N. Y.

The Hartzell Self-Draining Hose Reel

IT SELLS RAPIDLY.



Patented Jan. 5, 1897. Other improvements applied for.

It is scientifically and mechanically constructed.
It is a nice ornament and a great convenience in spraying and watering a lawn.
The hose is not kinked, twisted, crushed or drawn to a tension, thus avoiding the breaking of either the inner or outer walls of the hose which protects the fabric and prevents it from becoming water soaked, which usually causes the rapid destruction of the hose.
It drains all the water out of the hose, after it has been reeled, and keeps it always in good order, ready for service.
Each section of hose is independent of the others and may be easily detached at the top or bottom.
It sells at sight, because any person who owns a garden hose can readily see its advantages and superiority.

Jobbers are especially solicited to handle our goods to whom lists and prices will be furnished upon application.

DEALERS ask your Jobbers for the HARTZELL SELF-DRAINING HOSE REEL and insist on getting it.

If they will not supply you address us for prices, circulars and lists.

The Hartzell Novelty Works, Alliance, Ohio, U. S. A.

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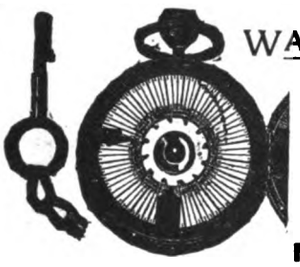
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Should be in the stock of all Hardware Dealers

3000 Sheet Rolls. Satin Finish Finest Quality.

Retails for $1.00 per case.

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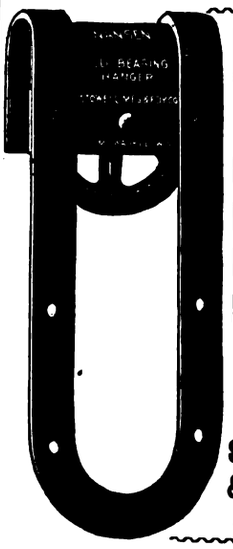
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WITH SAFETY LOCK ATTACHMENT.

Highest Award at Columbian Exposition.

This Clock is neat, thoroughly reliable and very durable. **Cannot be tampered with.** Price moderate. Is adapted for six or twelve stations, having a different key for each. Registering is done by number from 1 to 6 and 1 to 12, each station having its number. No chance for a fraudulent record here. Old style detectors mark by holes or an impression on dial, the same for all stations. Allowance made for old Detectors. Send for circulars, prices and further particulars.

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NANSEN

is ahead of all others, and so is our . . . .

Nansen Roll-Bearing Hanger.

No. 4, per doz. pairs, $15.00.
No. 5, per doz. pairs, $18.00.

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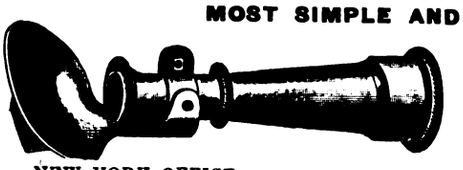
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Manufacturers of the

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MOST SIMPLE AND DURABLE.



Write for Prices and Descriptive Circular to the Trade.

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HOME OFFICE, *249 Genesee Ave., Cleveland, O.*

"The Best" Wrench

FOR 1898.



AS AN ADJUSTABLE WRENCH.

AS A NIPPLE AND ALLIGATOR WRENCH.



AS A SCREWDRIVER.

Four Tools in One.

Quickly Adjusted.
Perfectly Rigid.
Case Hardened.
Nickel Plated.
Good as can be made.
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Write for discounts.

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BRIGHT ATTRACTIVE CUTS OF HARDWARE GOODS

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BY ALL MODERN METHODS

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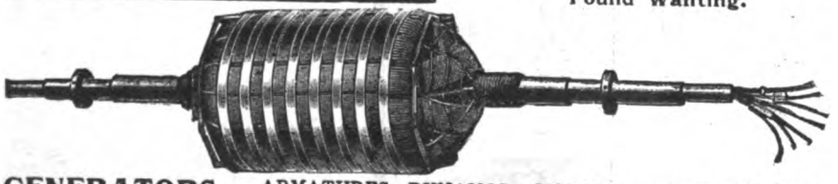
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Write us for Estimates on your work.

We Pay the Freight One Way.

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The Steel used in these Files is manufactured by our own steel works. They are cut by skilled mechanics on our own improved machinery, hardened by a special process which insures an even temper.

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We Guarantee the quality of our Files to be equal to that of our Saws. . . . . .

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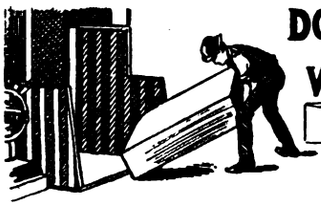
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Who are the largest and oldest importers, miners and manufacturers of Graphite, Plumbago and Blacklead in the world.



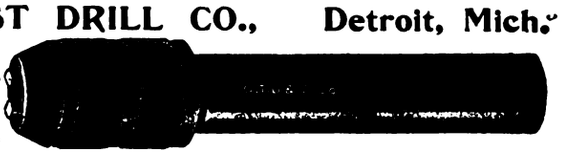
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MAKE ELECTRIC, HYDRAULIC HAND AND STEAM.
WE HAVE 3000 RUNNING.
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as hard as you like with chisel or mallet and observe that the surface finished with simply one coat of our

ELASTIC IRON ENAMEL

is scarcely marred. It also withstands a high degree of heat; in truth it is as nearly indestructible as it is possible to make a varnish. For smoke-stacks, fire-place casings and stove-pipes

ELASTIC IRON ENAMEL has no equal.

The accompanying cut represents a miniature stove-pipe finished with one coat of

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We send these display pipes with dealer's orders for this specialty. Pints, half pints and quarts are its most salable packages.

Chas. H. Gillespie & Sons,

VARNISH MAKERS,

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Every family should use this "SHAVE," illustrated; can be quickly changed into an **Awl.**

Crushers

For Ice Cream Manufacturers take the place of power crushers. Are used extensively. . .

WARRANTED TO PLEASE.

Ice dealers say our

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PARKER ICE TOOL CO.,

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You take no risk on the quality. We make only the best!

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MANUFACTURERS OF
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FOUNDED 1828.
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BOSTON PHILADELPHIA.

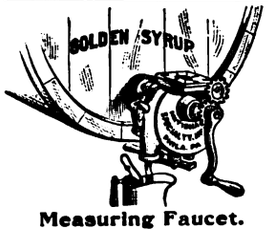
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HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

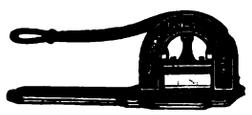
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Measuring Faucet.


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We Make Faucets

That measure a pint, a quart or a gallon accurately. A Barrel Drainer that adjusts automatically to fit in the bunghole. No bung borers needed and no molasses wasted. Coffee, Spice and Drug Mills that grind as you like it. Draw Cut Tobacco Cutters that do not squeeze through, but cut with ease. Our goods are second to none. All are fully warranted. Send for Catalogue to

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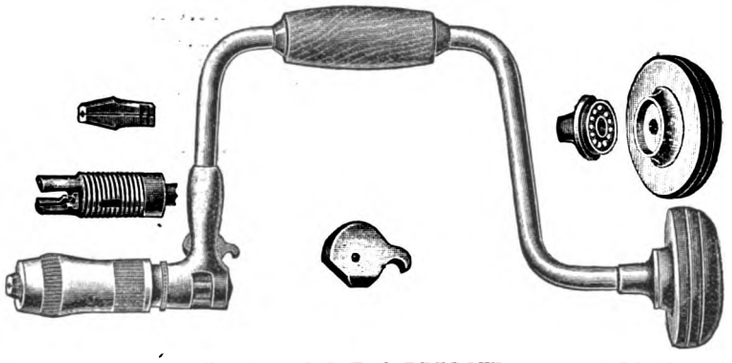


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THE IMPROVED PATENT RATCHET BRACE, BEST THING ON THE MARKET.



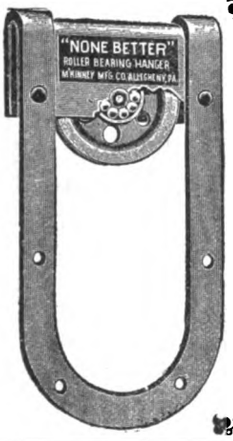
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Simplicity of mechanism. Lever blade used for ratcheting. Ratchets either right or left, and to work stationary. Does perfect work with any size of bit. Twelve balls in head run on steel cups, as strong and easy running as those in bicycles. . . . . .

Also First Class Line of Butchers' Cleavers.

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STEEL DOOR HANGERS.

WRITE FOR PRICES ON

No. 1 Special and No. 2 Standard.

THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

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PRESSES (FOOT and POWER)

DIES, AND OTHER SHEET METAL TOOLS

GET OUR ILLUSTRATED CATALOGUE. ARE BEST.

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OFFICE NEWARK, N.J., U.S.A. AND WORKS

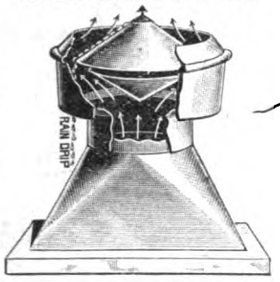
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TRIPOLI, ROUGE, BUFFS, &c.

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WE PAY THE FREIGHT.

The Pancoast Ventilator

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TO VENTILATE Your Homes and Cottages
Your Schools and Churches
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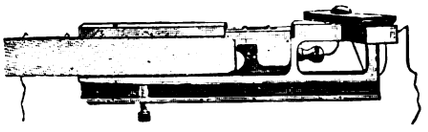
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We Guarantee Them, and make them in all sizes from 2 inches to 10 feet, of Galvanized Iron or Copper.

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A Perfect Saw-Tool at Last.



It SETS to the hundredth part of an inch.
SIDEDRESSES in any required degree.
JOINTS with unvarying exactitude, and otherwise
FITS the saw in all respects for easy and effective work.

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Complete stock always on hand. Exclusive manufacturers and originators of the only Interchangeable Script Sign Letter. A fine line of House Numbers, Name and Door Plates, and Street Signs. Aluminum Trade Checks, Aluminum Bicycle Chain Guards, Aluminum Castings. We challenge comparison for promptness, quality, and prices. Illustrated Catalogue on application.

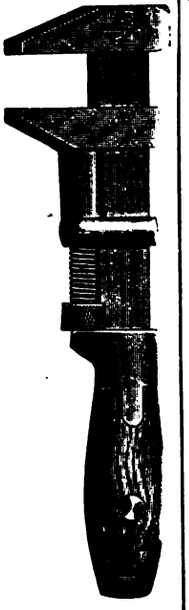
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Genuine Improved
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PATENT.

Screw Wrenches.



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Established in 1839.
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Patented April 30, 1895.

Sectional View Illustrates our New Knife Handle, showing Manner of Construction.

☞ traight Bar Extra Long Nut for Screw in Jaw. ☜

The BEST MADE and STRONGEST WRENCH in the MARKET.

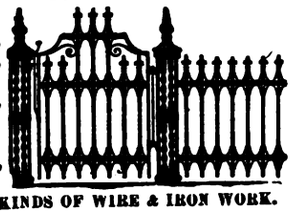
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OF ALL KINDS.
SEND FOR CATALOGUE.

Iron Fencing, Entrance Gates,



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BANK and OFFICE RAILINGS,
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AND ALL KINDS OF WIRE & IRON WORK.

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WE KEEP IN STOCK

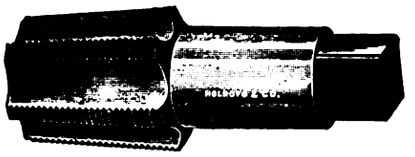
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Hickox Building. Cleveland, O.

Hardware Dealers Send us your address and we will mail Catalogue and discount sheet of STOCKS and DIES, TAPS, etc.



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PASTIME LAWN MOWER & TRIMMER.



IMPROVED 1898 MODEL.

This front cut mower trims to within ½-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

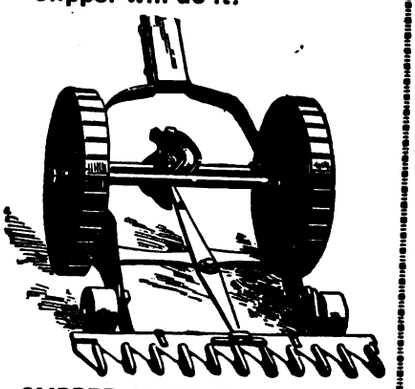
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Pastime Lawn Mower Co.,

We have the Best Weed Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

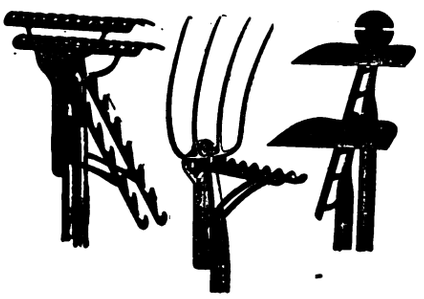
The Mower...

That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**



CLIPPER LAWN MOWER CO.,

. . . NORRISTOWN, PA.



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DISPLAY BRACKETS

For Forks, Shovels, Rakes, Hoes, &c.

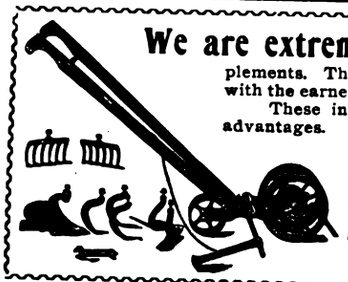
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JOHN N. HAGER,

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These inducements are potent for profit—note three of the salient advantages. Quality and workmanship are unquestionably and absolutely the best obtainable.

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COVERT MFG. CO.,

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With Plated, Rust Proof and Guarded Spring. . . .

"The latest and best."

For sale by Jobbers at Manfrs. prices.

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Also SICKELS, PRESTON & NUTTING CO., DAVENPORT, IOWA.

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CHAS. E. LOUIS, Propr.

Established by Predecessor in 1856.

MANUFACTURERS OF

Ouachita and Arkansas Oil Stones,

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Special Shapes and sizes made to order. We also manufacture Stones specially adapted to Jewelers', Watchmakers', Carvers' and Lithographers' Trade.

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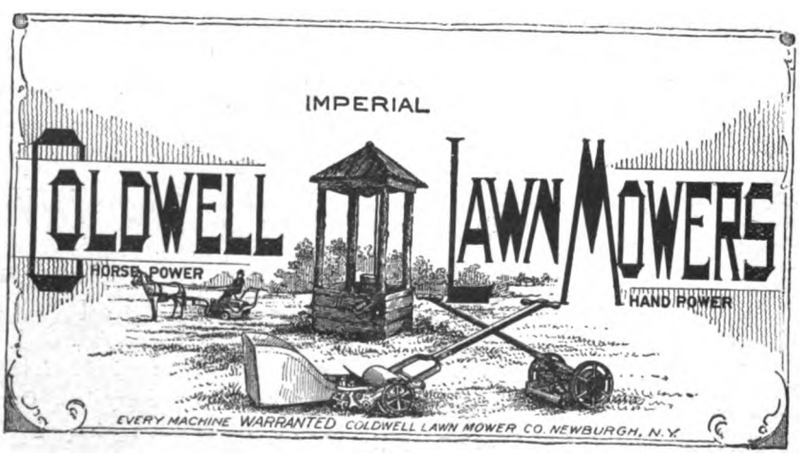
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BOSTON,

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A better assortment than ever. The machines manufactured with the same care and skill as shown in previous seasons.

LEADERS THE WORLD OVER.

Wise dealers will buy Lawn Mowers that will give their customers satisfaction not only for one year but for years to come.

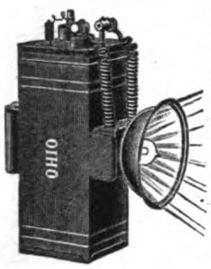
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THE GREAT AMERICAN,
THE NEW DEPARTURE,
THE WESTFIELD.

SUPPLEE HARDWARE CO.,

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WE UNDERSELL ALL.

It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights.	$4.00
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
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$8 Medical Batteries.	3.95
$100 Bicycles, best make.....	39.00
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Our Bicycle Electric Light is the best thing that ever happened. . . . .
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Sash Locks
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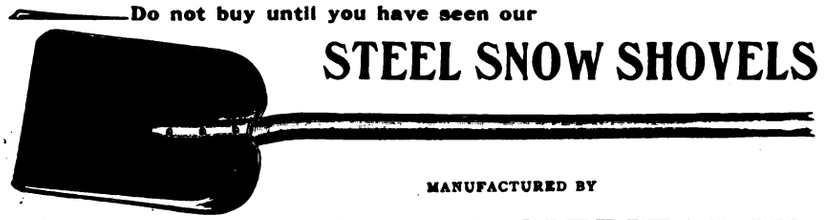
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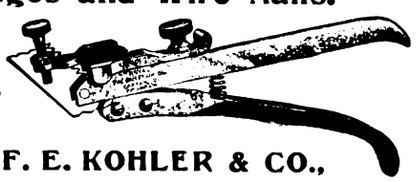
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Buy a ROYAL, then be seated on a stool,
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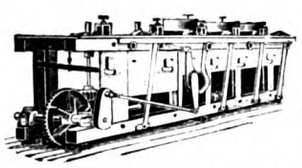


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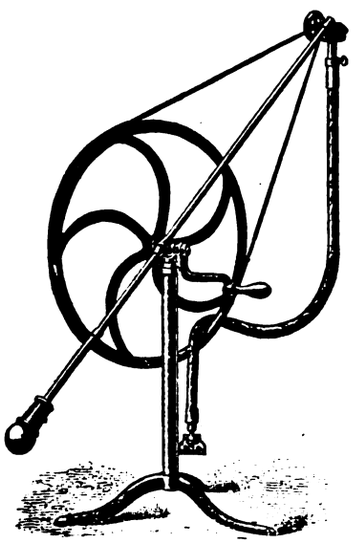
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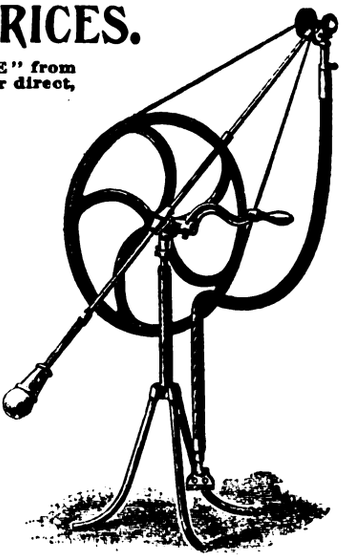
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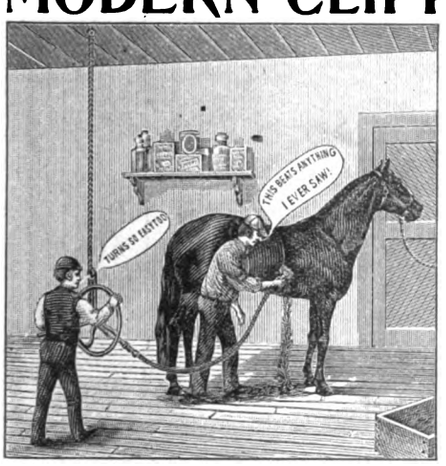
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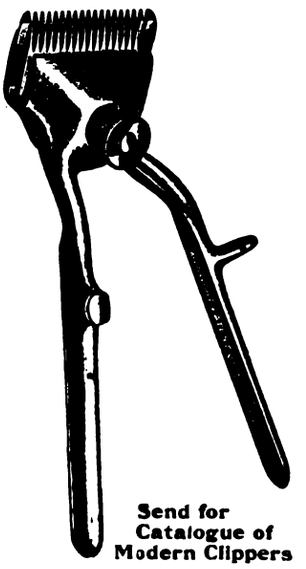
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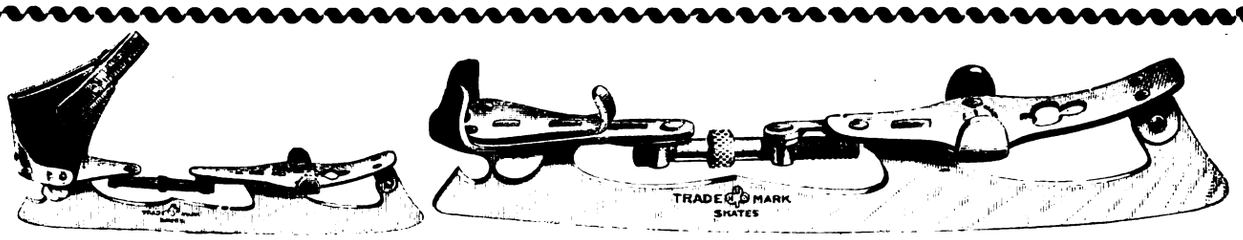
158-160 HURON STREET,

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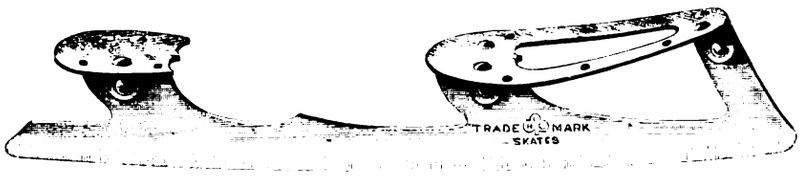


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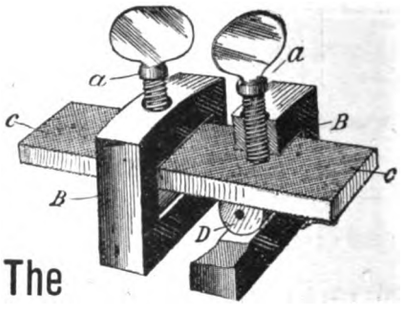


UNION CLUB SKATE.

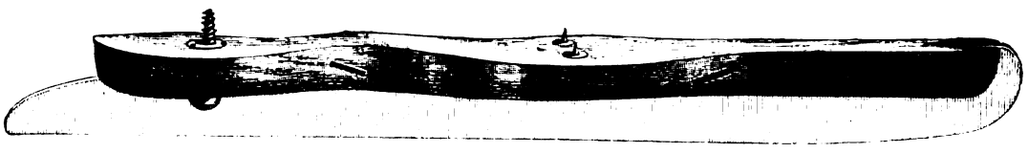




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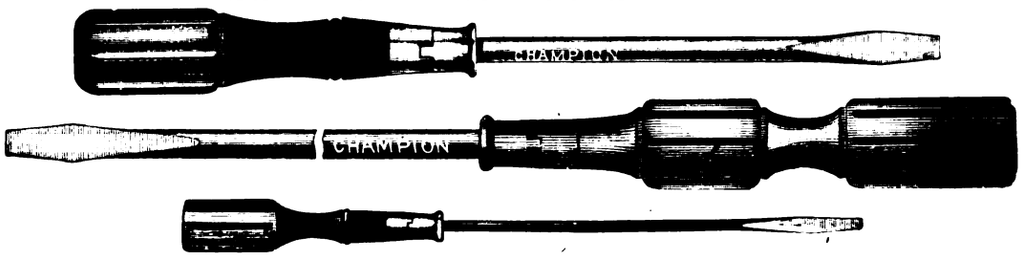
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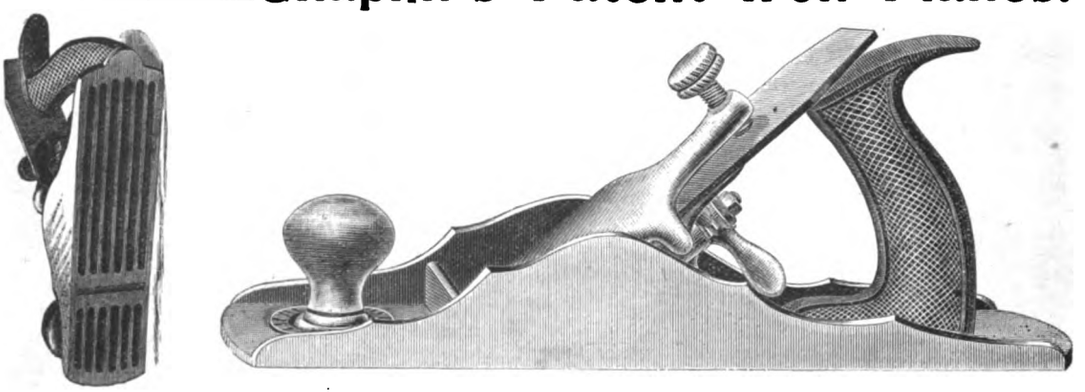
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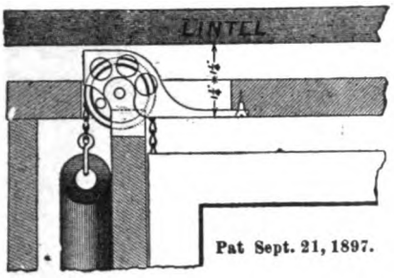
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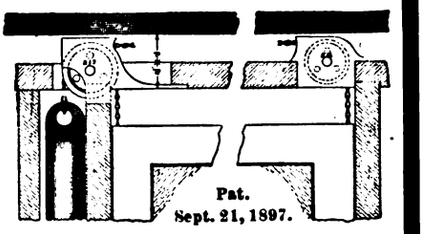
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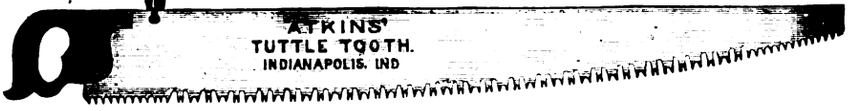
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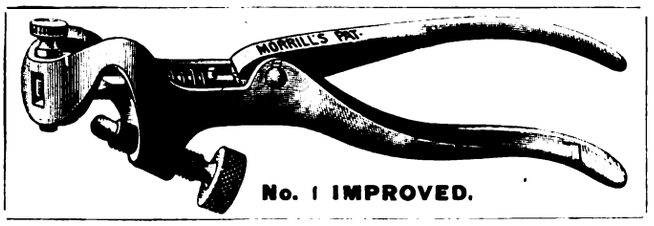
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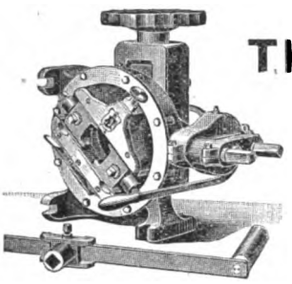
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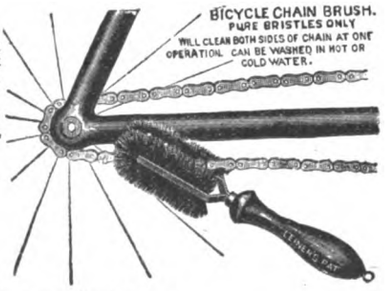
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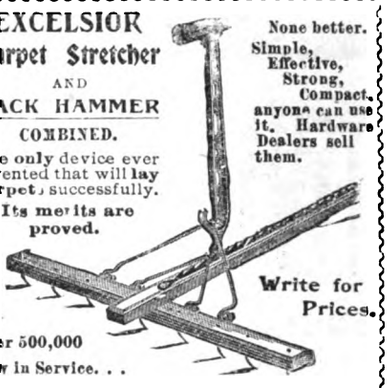
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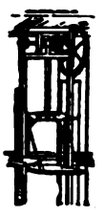
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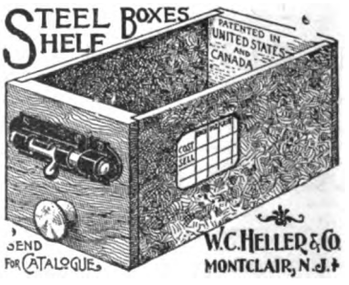
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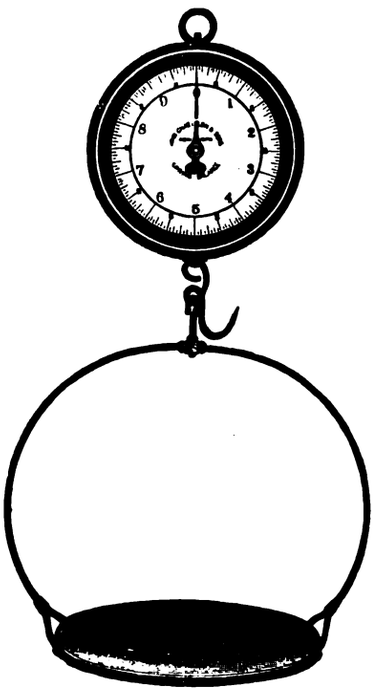
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CHATILLON SPRING SCALES.

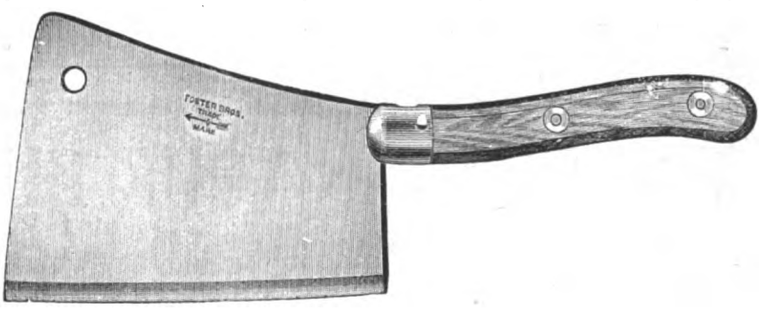
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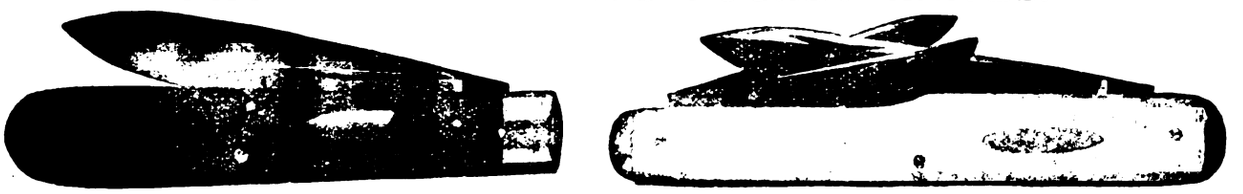
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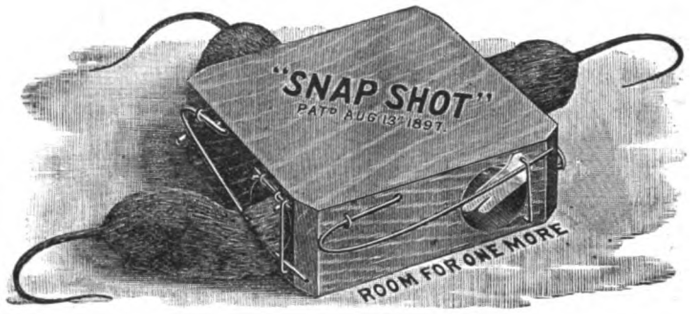
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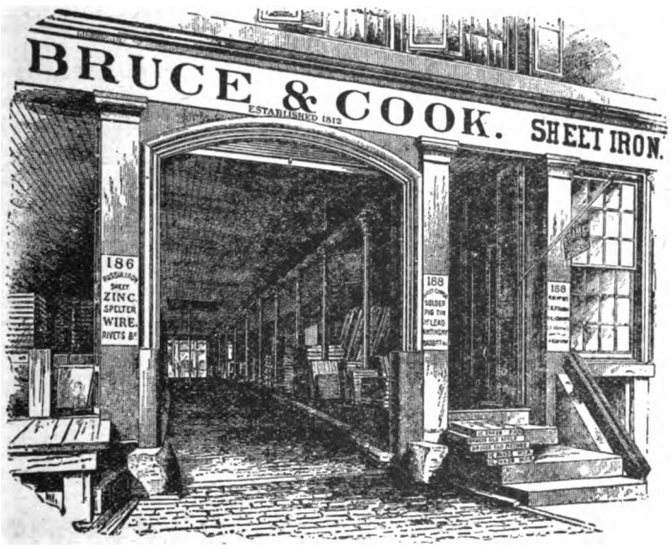
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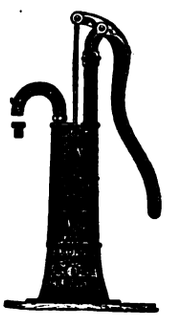
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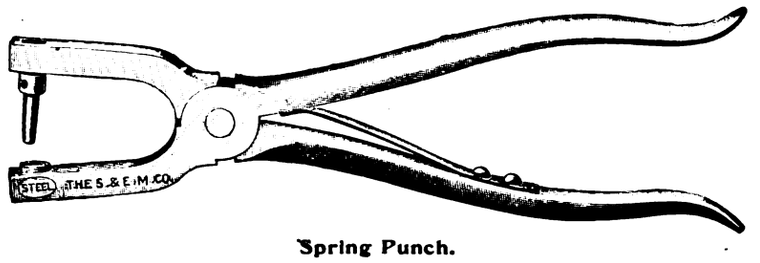
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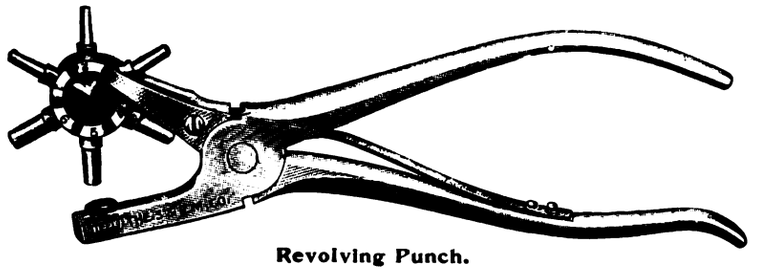
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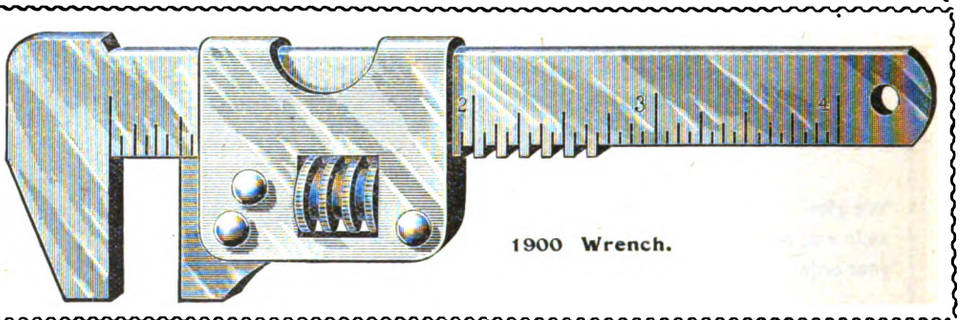
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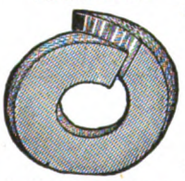
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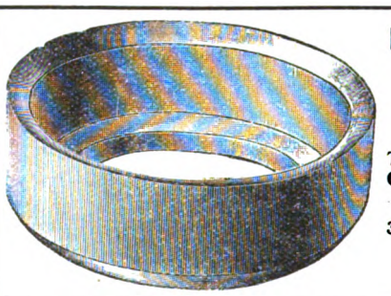


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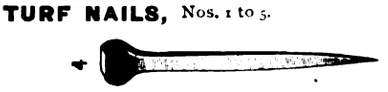
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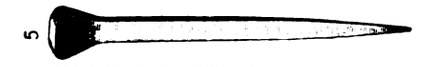
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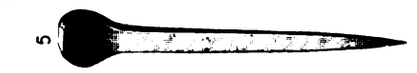
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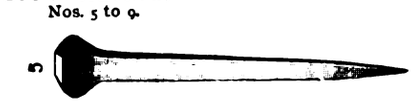
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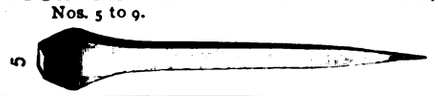
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HARDWARE

VOL. XVI. MARCH 10, 1898. NO. 11.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

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The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

A steady improvement in business is noted so far this month in the accustomed channels of local trade, and our reports from the interior bear witness to the fact that a similar state of affairs is apparent in the trade centres in other directions. In almost every line of goods, it is safe to assume from the visible signs, that a volume of business is already in sight that will prove by comparison with recent years fairly unprecedented.

Current prices on staples and materials are aggressive in character rather than otherwise. Heavy transactions in iron, steel and contributing lines give every indication that orders for products for months ahead are already on order books, with the resultant advantages of stiffened quotations, and there exists a willingness to give the go-by to specifications that promise more of employment than remuneration in the way of profit. When even pig iron under conditions that show an unprecedented production, feels the influence of an advancing market, without materially affecting sales; with copper also held at an advance of nearly one cent a pound over January prices, it may safely be assumed that manufactured goods will be held at increasing quotations for some time to come.

The bank clearings for January and February appear almost phenomenal in character, and show palpably how great is the impetus given to current commercial transactions and financial movements, the average daily clearings for February being reported as six per cent. in excess even of 1892, the heaviest for that month previously on record. Greater attention than ever is being given by our Hardware manufacturers to the export trade, the volume of which is rapidly and profitably extending. Competition in this trade, with the low bids of foreign producers, stimulate to the utmost a comparison of costs, involving frequently the necessity for economic saving and possible advantages by a combination of competing plants, a reduction of an office force, too often of an ornamental or supernumerary character, and the employment of the most skillful machinery that can be constructed by our productive energies. Once we obtain a foothold in a market previously controlled by the organized commercial forces of Great Britain or Germany, the high grade manufactures, bearing the trade marks of American makers, are found so superior for the purposes for which they are employed as to give us a prestige it would take an entire change of industrial methods on the part of our formidable trade adversaries ever to dislodge us or discredit our superior advantages. Let us hope these commendable efforts will continue their present success and prove a prominent factor for the future.

"The Blast of War."

It is just possible that this agitation of the question of a war with Spain will prove of benefit rather than a detriment to the business interests of this country, even if it reaches a bloodless conclusion and never progresses beyond the confines of a diplomatic settlement.

Its discussion brings in its train a harmony of sentiment among political adversaries, which has a tendency to dispel under the folds of the waving bunting, party animosities and political diversity of sentiment, that have been long standing and desperately fought for.

It enables us to glory in our strength and learn largely in what consists the foundation of our glorification. As a country we are in admirable condition to show the envious nations of the globe the fearlessness with which we dare assert ourselves. The feeling underlying it all with our countrymen is that Spain is among nations well represented by the boy king among rulers. We seem too strong and stalwart to need to do more than shake our fists and listen to an apology from the disordered Dons who have more to lose than gain even under diplomatic conditions, with the future of the island of Cuba anxiously awaiting the decision.

How will this agitation affect this year's business? Can it prove anything but an advantage, taking our minds from the weaknesses of the past, and strengthening our confidence in the future?

Let us suppose the prospect of a war with Spain is among the possibilities of the coming months, even if scarcely possible; the distribution of $1.000,000 contracts for projectiles as well as for ammunition, which have been given so urgently by our Secretary of War, that authority had to be obtained subsequently, will stimulate the manufacturers of all analogous branches of trade.

The very fact of an appropriation of $50,000,000 to support the stand we are taking, throwing about our movements the ardor of a warlike preparation, stirs the blood and revives in our veins the patriotic fires that have long been smoldering, and makes the business man view the present war cloud with feelings of national exaltation instead of nervous apprehension.

If the soldierly element in our citizenship to-day, both North and South, could but once more appear in battle array beneath Old Glory, no vestige would remain in our otherwise perfect civilization of any disturbing memories still surviving from the associations of our civil war.

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Indiana Retail Hardware Dealers Association.

The annual meeting of the Indiana Retail Hardware Dealers' Association, which was held at South Bend, Ind., saw a fair representation of the membership, and was successful in a marked degree. The first session was called to order at 2:30 P. M., on Wednesday, February 23rd, by George E. Nichol, president of the association. M. L. Lewis, of the Marion Hardware Co., Marion, secretary of the association, made an interesting statement of the work during the year, after which Charles F. Bock, of Battle Creek, Mich. president of the Michigan Hardware Association, delivered an interesting address. Several minor matters of business were disposed of, and on Wednesday evening the election of officers was taken up, with the following result:

President: George E. Nichol, of Nichol, Makepeace & Co., Anderson.

Vice President: George W. North, Columbia City.

Secretary and Treasurer: M. L. Lewis, Marion Hardware Co., Marion.

Executive Committee: Irving A. Sibley, South Bend, and Sharon E, Jones, of the Jones Hardware Co., Richmond.

An investigating committee to adjust complaints and grievances was also appointed, consisting of the following gentlemen: O. E. Lang, O. E. Lang & Co., Mishawaka; M. L. Corey, Corey & Stevens, Argus; Charles B. Frame, D. Frame & Son, North Manchester.

Several discussions of an interesting nature occurred, and it was decided that the next meeting shall be held at Indianapolis, at a date to be fixed by the executive committee.

They Never Sleep.

Has the fact ever impressed you that spring hinges do by far the hardest duty of any Hardware? Not only do they carry the weight of a door and suffer the wearing friction of constant usage, but must besides automatically close it. The Bommer Spring Hinges are made of wrought steel, and where this famous spring hinge is ordered in bronze metal, there is a continuous steel core from end to end, the bearings being solid steel turned from the rod. "Practically unbreakable," says the World's Fair Award.

A valued subscriber sends us the following unique specimen, culled from the many orders with which his desk is stored. While it is unique in its way, it has an expressive earnestness, which shows that the writer knows just what he wants, and expects to have it:

"Deare Sir: I will write you and in form you that your clarke Sould me a Corne Shellar and for got to put in tow Boulghts Witch fasen it on the box please send them by express by sodoing you Will faverme very mutch."

S. H. Harman, Bloomsburg, Pa., Surpless, Dunn & Co., sole agents, No. 55 Warren street, New York, is placing upon the market a desirable line of sheet metal goods, including solid steel spout oilers and curry combs, the quality and styles of which have proved very popular with the trade. Mr. Harman also manufactures a roller skate which, in the recent revival of this healthy sport, has met with steadily increasing sales, and will be found by the trade to possess selling merits worthy of an extended introduction. Quotations will be furnished the trade upon application.

The offices of the Minnesota Retail Hardware Association are now located in the Boston Block, Minneapolis, in charge of J. W. Clark, secretary. The same headquarters also belong to the Northwestern Retail Hardware Association, covering the States of Minnesota, Wisconsin and North Dakota.

A Hardware Association Number of "Hardware."

On April 10th, 1898, *Hardware* will celebrate the eighth anniversary of its birth.

Hardware has certainly used its best effort for the promotion of neighborly friendship and good fellowship among the members of the trade. It has given freely of its space for the dissemination of news in regard to the great Hardware organizations which, since 1890, have become so grand a force for good in the Hardware world. It has by its voice, encouraged in every possible way the creation of organizations having for their purpose the bettering of trade conditions, and has been an enthusiastic supporter of every movement having for its purpose the good of the trade.

It occurred to us that the celebration of our anniversary of April 10th, 1898, could be made of signal usefulness to the trade everywhere, by the publication of a SPECIAL HARDWARE ASSOCIATION number.

It is our purpose, therefore, with that issue, to present a mass of valuable information in regard to the beginning and growth of the great forces or organizations which have accomplished so much in the way of acquaintance, better business methods, and the cultivation of fraternal regard. These sketches of the rise and growth of the organizations will be accompanied by portraits of various officers of the same, special articles from the pen of men who have been instrumental in the founding of these societies, and much else of interest in connection therewith. We feel that the time has come when the various steps which led to the creation of these forces within the Hardware trade should be gathered and properly placed upon record, and more especially as the information can now be secured at first hands, from those who assisted in this work.

We ask the hearty co-operation of Hardwaremen everywhere in this laudable effort, and our experience of the past leads us to firmly believe that the same will be given with a generous willingness which shall be very effective in its results.

As will be seen by the special announcement elsewhere, E. Bissell, Son & Co., the well-known auctioneers, at No. 12 Murray street, and No. 15 Park place, New York, on March 16th, at 10 o'clock, offer a fine line of Hardware and tools, shovels, scoops, hoes, rakes, etc. Full details are given in the announcement referred to, and the auction is one of no small importance, and affords an opportunity not often offered for the purchase of goods of this character.

John W. Buckley, No. 156 South Street, New York, illustrates on page 46 of this issue his Invincible Rubber Hose, which is wound with heavy steel wire throughout the length, and is complete with brass couplings and bands. The exceptional terms upon which he is willing to send sample lengths of these goods are also stated in the card referred to, where he also calls attention to his other grades of rubber and cotton hose.

Advertising is like the flying express. You may be sitting still, but your ad. is carrying you on to prosperity's goal with lightning-like rapidity.—*National Provisioner.*

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MR. ALLERTON ON THE MONEY QUESTION.

To the Editor of Hardware: Your readers are active business men and not politicians, and no doubt are governed by true patriotism, and if they would use their influence for good government, they would aid largely in molding public opinion. There are five great questions that should be settled by this nation for the best interest of all our people that party spirit should not govern: The finance question, the tariff, the emigration, the marine, the navy, and how to create a greater diversity of labor; the business element leaves these great questions to be settled by politicians.

The United States Senate is supposed to be a conservative body made up of all the ablest men of the nation. One would suppose that the last election would have settled the silver question, and yet we see the Senate voting affirmatively for Teller's resolution, a resolution meaning free silver, "sixteen to one." The Republican party are rejoicing that the lines of the political parties are formed for 1900; this should convince the business element of the nation that they have a duty to do, which is to try and mold public opinion in the interest of true patriotism, and that we must now begin to educate the people for the battle of 1900. This talk of bimetalism is a delusion; there is no such thing as bimetalism; we may as well talk of making corn wheat. We must believe that the free silver Senators are honest in their convictions. It would seem as though they were governed by prejudice against bond holders. And yet it is the middle classes who own the bonds; the wealth of the nation is invested in railroads and manufactures, with very few exceptions. The advocates of the Indianapolis Monetary System believe the true way to better the financial system of our country is by allowing banks to issue currency against bills receivable. The great trouble with all these financial doctors is, they do not understand what is money. I learned when a boy what money was. A gentleman of character and credit said to me he thought hogs were going up, that as I was active and a good buyer I ought to go out and buy. I said I had no money. "He replied, I will take a half interest with you. I will sign checks which you can take that are just as good as money, pay the farmer by a check given in his name, tell him it is good, and if it gets stolen or burned up he can get another check." I bought the hogs and shipped them to New York, got back with a New York draft before one-quarter of the checks got in the bank. I learned then that credit was money.

We have a great many bright, intelligent men who would love to promote some industry that would benefit the nation, but they have no credit, and this is why they are failures in the world as business men. I worked on a farm ten years of my life to accumulate $3,200; with it I made a reputation and a credit, so I could go into a bank and borrow from five to ten thousand dollars without an endorser. I started in life buying and feeding cattle in Illinois, which seemed to be an honest business, but in 1857 William Sturgis "broke" in Cincinnati, and the national financial system was so weak that it threw our country into a panic and wiped out all I had except my credit. The business of our country is done on 92 per cent. credit and only 8 per cent. cash. If the three billions and five hundred millions of silver in the world was coined into a forty-four-cent dollar as primary money, the credit of the nation gone, the credit amongst ourselves gone, the silver to do the business would be a bagatelle, and the business of our country would be paralyzed. We have one billion five hundred million of currency at the present time that does 8 per cent. of our business, and if our credit was gone it would take fifteen billions of silver to do the business of this country. A practical fact is a great deal better than a theory.

From 1694 to 1696 the English nation was in war with France. They were in great financial distress, because their coin, consisting of shillings, crowns and pounds, had been chipped so that it had only one-half its value. At that time their money was hammered money. They organized a mint to coin shillings, crowns and pounds of full value, but it left the country as fast as it was coined, or was hoarded by the people, and they had only poor money, because poor money always drives out good money. They knew they could not succeed with shillings, crowns and pounds at half their value, and something must be done to restore their credit. They tried to start a land bank but it would not go; they were in great distress to know what to do to raise the money to carry on the war against France. They said it was not right for the people to lose who had received this debased coin, yet they must restore their credit; how could it be done? They decided that the Government should receive this depreciated coin at its actual weight; they would return coin at its full weight and value, and for what it lacked in value the Government would give its note to the people. This act immediately restored credit; they raised the money to carry on the war against France, and the English nation learned away back in 1694 that credit was money. They established a sound financial basis, and then became the credit nation of the world. If they wanted to raise one hundred million they would buy forty million of gold and increase their credit sixty million. To-day they are the richest nation on the globe, made largely by establishing their credit and having a sound financial basis, and the bank notes of England are taken all over the world. We, the richest nation in material wealth in the world, should establish a financial system that should be sound—one that would give confidence to the world, and in ten years New York would be the financial center of the universe; but our trouble is, we have one party who want a forty-four-cent dollar and another party who want the banks to issue the currency. The banks would have their currency to take care of besides their other obligations, and when there came a flurry they would all call in loans and cause a panic. If our public men would forget party strife, and be governed by manly patriotism, issue one billion five hundred million of greenbacks, take up all their other outstanding obligations, have one uniform currency redeemable in gold, increase the currency as we increase in population, so the money interest would have no advantage over other industries, there would be no contraction or expansion to demoralize our country by panics. If our Government would adopt this system no one would want to hoard gold, as the banks and people have done for the last four years, because they were afraid of the silver agitation. Our Government would soon have one billion of gold in its Treasury, for when the Government adopted this system no one would want gold and no one would hoard gold. This would give us the soundest financial basis of any nation on the globe. Congress would have to empower the Secretary of the Treasury to issue and sell gold bonds to protect the Treasury. If Congress had authorized the Treasurer in January or March, 1893, to issue gold bonds to protect the

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Treasury, we would not have had the panic of 1893, which was the principal cause of our depression of the last four years. The greenback would be the civilizer that would be respected and pass current in every market of the world. Under a sound financial basis of this kind the rate of interest would be lower, and we would soon have money to loan to the world.

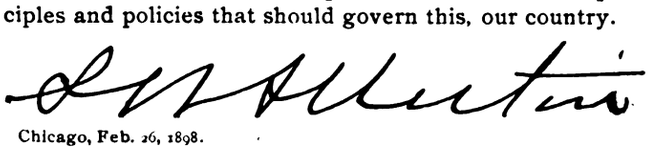
The financial question is a simple question to settle if our national legislatures would only adopt business principles. When an intelligent merchant has a lot of rejected goods he sells them. Silver has filled its mission even the same as the mule and the bobtail car, and as long as the Government hangs on to its five hundred million of silver there will be silver agitation in this country; possibly a portion of it could be used as subsidiary coin, but the remainder of it ought to be sold.

The tariff question should be taken out of politics. The emigration law should be so amended that any foreign citizen who wanted to come to this country must have a certificate of good character from the proper authorities of his own country, and possess at least one hundred dollars when he landed. The Government should give a bounty to stimulate the marine so our flag should float in every harbor of the globe.

In the last forty years the American people have invented so many labor-saving devices that it has in a measure necessarily reduced the demand for labor. Our statesmen should study how to promote a greater diversity of labor. We import from one hundred to one hundred and twenty million dollars worth of sugar, all of which we could raise at home if a bounty was given; now, how would doing this affect all parts of our country? Nebraska, Utah, and States west of the Missouri River have proved that they have the best soil in the world for producing sugar beets. If these States cultivated their land to produce sugar they would not raise the other cereals to come in competition with other States. It would furnish employment for our idle labor, set our mills and factories running to produce the machinery and goods to supply the laborer, make transportation for our great railroads, and save the Government from furnishing one hundred million dollars per year to pay for sugar. There is not a man, woman or child in the United States that this would not benefit.

The song of President Cleveland and his admirers was that "greenbacks were an endless chain and a source of weakness to the Government." If the Government intends to maintain its honor and credit it must redeem all its currency in gold, so if the greenbacks were retired the other currency would become the endless chain. The greenbacks are the intermediate between gold and our currency; a benefit to the Government not a detriment. Had Congress maintained the revenues of the Government, President Cleveland would not have had to sell upwards of one hundred millions of gold bonds to maintain the credit of the nation. The Government has already saved two hundred and forty-four million dollars in interest by the greenbacks.

The elective franchise was the greatest gift man ever had presented to him, yet business men cannot afford to spend a few hours to go to the primaries but leave it to the politicians. No man is a good American citizen who does not do his political duty to his country. For it is the administration of the affairs of our Government that gives us prosperity or adversity; so how important it is that business men should take a personal interest in the principles and policies that should govern this, our country.



Chicago, Feb. 26, 1898.

The rate of transmission on Atlantic cables is eighteen words per minute, but by "duplexing" this rate is doubled.

He Discourses on the Manager.

"The Man at the Corner Desk" in the great store of the W. Bingham Co., Cleveland, Ohio, devotes himself in the February publication to the manager of the wholesale department in a Hardware store, who, according to this expert testimony, has troubles of his own. According to this man in the corner, "the manager of the wholesale department is probably called upon to exercise in a day the greatest variety of mental activity; for it is by his direction, under the general management of the concern, that the whole machinery connected with the sale of the immense line of Hardware moves. An undecisive man would be as much out of place here as a butterfly in a blizzard; nor is there a place in the house where a lack of knowledge or an error in judgment is more liable to do injury. By an intuition born of long habit he gauges the wants of the dealers and the house's ability to supply them. It is he who detects the changing favor of the trade, as lines of goods wax and wane in popularity: who knows whether or no articles will be 'takers' and in what section; where the competition is strongest and how best to meet it; and when to push a line hard, and when to cease.

"And he has more troubles than a married man: Every complaint or bit of dissatisfaction; each infraction of rules or mistake of employees; all indefinite orders or inquiries —every variation of any kind from the regular course of things in his department comes to him for adjudication. It is he who fixes the selling prices and keeps the salesmen informed of every detail that has an effect upon the sale of goods. When a traveler wants a change in territory (as is their regular custom) he has him to satisfy; when the buyers want to know why goods don't move faster, it is his to explain; when a salesman runs into a mare's nest, it is he who must be able to ferret out the trick by which an opponent demonstrates an apparent difference in his favor."

Fraudulent Failure s

At a recent meeting of the various local associations of credit men throughout the United States the investigation of fraudulent failures has been discussed. This work has proceeded under the immediate supervision of the national officers, and will result in the adoption of definite and uniform methods for use by the entire membership of the organization. The following resolutions, approved by the Board of Administration of the National Association of Credit Men, at its regular meeting in September last, are an indication of what is to be done where suspicious failures occur:

Whereas, Fraudulent failures constitute a serious menace to the mercantile community, and,

Whereas, Such failures are as dishonest and reprehensible as any form of robbery, and the safety of the business public demands that all persons involved therein be brought to justice, therefore be it

Resolved, By the Board of Administration of the National Association of Credit Men that the plan of dealing with suspicious failures presented be, and the same is hereby approved, and the board recommends that the proposition contained therein, to select legal correspondents throughout the United States to actin conjunction with some well-known detective agency, in investigating such failures, be especially emphasized in carrying out such plans. And be it further

Resolved, That the officers of the Association, together with the Committee of Investigation, be authorized to make such changes and modifications in the plan presented as they may deem expedient.

Pavements made of granulated cork mixed with asphalt have proved successful after two years' trial in London and Vienna. They are never slippery, are odorless, and do not absorb moisture, besides being clean, elastic and lasting. Near the Great Eastern Station in London, the wear in two years amounts to about one-eighth of an inch.

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THE OHIO HARDWARE ASSOCIATION.

The Fourth Annual Session of the Ohio Hardware Association was held at Columbus, Ohio, on Wednesday and Thursday, February 23 and 24, 1898, in the Assembly Hall of the Hotel Chittenden.

The attendance was the largest in the history of the Association, a gratifying feature being the large number of new faces seen among those present. After cordial greetings among the members, the president, J. P. Duffey, of Greenville, took the chair and called the Association to order, after which he made a brief address congratulating those who had attended previous meetings upon the continued increase in the membership and also upon the fact that this Association and its principles were no longer an experiment, but an assured fact. He said:

ADDRESS OF PRESIDENT J. P. DUFFEY.

Gentlemen: Nothing since my connection with the Ohio Hardware Association has given me so much pleasure as the large number who are assembled here to-day. We feel that our efforts to interest the retail Hardware merchant in our organization are being successful.

Members of the Association and others who are with us, we hope to become members, we bid you welcome. Could we have had this number with us at our first annual meeting, held in this city three years ago, and have had the same percentage of increase in our membership we have had to-day, we would be recognized throughout this country as a power, and our influence in the interest of Ohio's retail Hardware merchants would be felt everywhere.

We have too many waiting to see what we will amount to as an association. At our Dayton meeting in 1896 a dealer who accepted an invitation to attend our annual banquet, when asked by our toastmaster for a remark, said: "I would like very much to become a member of your association, and will do so when I find you are going to be a success." A reply was made to him then that when we succeeded in our undertaking we would not be seeking members. That we needed him now and wanted him, but when the time came that we would not need him, we would not want him.

That reminds me of a lecturer who told of a preacher who in his selection of subjects for sermons aimed to please some particular member of his congregation. A feeble old man, very poor, half starved, nearly naked, but withal a very devout Christian member—for him the pastor prepared a very able sermon; subject, "Heavenly Recognition." In the midst of the sermon the good doctor, thoroughly warmed up to his subject, made the startling discovery that the good old brother was sound asleep. The service concluded, the minister came down the aisle, grasped the hand of the pious old gentleman, censuring him for sleeping during the delivery of a sermon especially prepared for him. The old man said, "When I get to Heaven and hear the glad tidings, 'Well done, thou good and faithful servant,' when I am permitted to parade the gold-paved streets of the New Jerusalem, it will matter very little to me whether I am recognized or not. What I need most now is a little earthly recognition." What the Ohio Hardware Association needs is instant recognition from Ohio's retail dealers.

In August, 1894, this Association was organized with less than 1 per cent. of Ohio's retail Hardware dealers as members. In the accomplishment of the purpose for which we are organized, as far as it concerns the number of members, it is very unfortunate that we are the pioneer State Association of Retail Hardware Dealers in America, Michigan, Minnesota, Wisconsin, Indiana, South and North Dakota organized in the order named, each State with an increased percentage of her dealers as members, North Dakota last, with 199 Hardware merchants, 105 members. Reverse this order if you will. It's Ohio's turn to organize. Instead of 53 per cent, of the Hardware men of the State we have as yet less than 10 per cent., but we will go on in our way, and some day we will reach a membership of over 60 per cent. of the retail dealers of this State. The numbers here today indicate a very healthy increase.

Last year I took great pleasure in saying death had not entered our association. I am very sorry I cannot make the same declaration again. Two of our very best members have died, F. F. Stone, of Urbana, and Mr. Gillum of Chillicothe. Mr. Stone was one of our original members. He was the especial friend of every one of us, an active, agreeable, dignified, genial, interesting member. I want to repeat the expression of Mr. Wiseman at our '96 meeting, that while Mr. Stone had been a competitor of his in a neighboring city for nearly 20 years, he had never met him, and his time, trouble and expense of attending his first meeting of the Ohio Hardware Association had been fully repaid in becoming acquainted with Mr. Stone, and his only regret was that he had not known and become his personal friend 15 years before. This last statement applies to us all, that we knew him too short a time. I do not want to speak disparagingly of any member of our association, but I do want to say that the absence from our meetings of F. F. Stone will be regretted more than that of any member I now think of.

With Mr. Gillum we were not so well acquainted. He met with us last year for the first time and impressed all of us with his dignified, gentlemanly manners, more retired and conservative than most of us, hence our knowledge of him is more limited, and I desire that some of his personal acquaintances will, during the afternoon, speak of him fully.

To our efficient secretary, who has labored in and out of season, who has toiled early and late, is due the praise for the success that now promises for this, our fourth annual session. He has been untiring in his efforts for the good of our association, has devoted much of his valuable time and given a good part of his best thought for our benefit. He has done a vast amount of work, but has done it easily, for the very simple reason that he knows how. His modesty may prevent him contending for his rights, but I take this occasion to speak for him. He received no pay for his services for the year 1896, and while it may be the sentiment of our association to curtail expenses, I appeal to you that you make no cut in your secretary's salary for the year 1898.

Gentlemen, again I welcome you here and hope every one of you will go home feeling fully satisfied with your attendance. I thank you for your kind attention.

The secretary, John F. Baker, of Dayton, was then called upon to read the minutes of the last meeting, which on motion were approved. He followed this with his yearly report, and it was found by those present that a vigorous policy had been pursued during the year; that quite a number of grievances which had been brought before the executive committee had been satisfactorily disposed of, and that in several instances certain jobbers and manufac-

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turers had consented to abide by the principles of the Association.

The secretary also presented his report of the finances, showing the excellent condition of the treasury. After some routine business, the president appointed the following committees:

On Resolutions: Messrs. Angle, of Piqua; Marquis, of Bellefontaine, and Ewing, of Lima.

On "Question Box": Messrs. Harrison, of Toledo, and Ross, of Bowling Green.

On Nominations: Messrs. Morris, of Lima; Clark, of Gettysburg; Gray, of Coshocton; Scott, of Marysville, and Cosley, of Troy.

On the death of Mr. Gillum: Messrs. Haberman, of Marion; Stahler, of Waverly; Harner, of Bellefontaine, and Reid, of Greenville.

A number of communications were read by the secretary, one of great interest being from J. W. Clark, secretary of the Minnesota Association, regarding State and National Associations. Several other communications were received from various members of the Ohio Association regretting their inability to be present. Invitations were read also, one from the Columbus Hardware Association, inviting the members to a Bohemian Smoker at the Neil House on the following evening, and one from the Smith Bros. Hardware Co., extending a cordial invitation to visit their establishment. After some minor matters had been disposed of, Mr. Wiseman, of Springfield, favored the Association with a very able paper on the subject "The Progressive Hardware Dealer." He was followed by Mr. Haberman, of Marion, with an interesting paper on "The Silent Salesman." He said:

MR. HABERMAN'S ADDRESS.

It is not expected that this brief article will contain anything particularly new, for the entire field of business experience has been so thoroughly threshed over in the columns of the trade journals and in papers read at meetings similar to this that there remains nothing new under the Hardwareman's sun. At the best, it is aimed but to emphasize old truths and to direct renewed attention to some established facts of which we are already aware. If this end is attained, well and good; if not, there is no harm done beyond the wasting of the few minutes that follow.

Silent Salesmen! Those inanimate aids to business which yet speak louder than the men who make use of them, and make or mar the merchant's prosperity, according as they are controlled; that work night and day, week days, Sundays and holidays. rain or shine; that don't go to funerals in the baseball season, don't throw business to the winds every time a brass band comes up the street, nor try to flirt with lady customers; exacting in their requirements as a tax gatherer, yet yielding faithfully good return for fair treatment.

The name of the first is the store front. It stands to an establishment as the face to a man, and the wayfarer is attracted or repelled by the first impression of the outside of a place just as he is by the first sight of a person's countenance. One does not associate thrift with an unpainted building any more than with an unwashed face, nor does he expect courteous, intelligent, satisfactory service when he enters a store the very outside of which proclaims a man indifferent to appearance. A dingy, weather-beaten sign, second story windows rendered light-proof with dirt, a broken step or badly arranged entrance, old worthless samples displayed outside, ashes dumped into the road before the door—each and all betoken a laxity that will in all probability find further expression within, and cause a prospective purchaser to seek further.

Nor should the merchant go to the other extreme. A door front can be made to assume a too smart appearance that is as fatal to confidence as slovenliness. A book could be written on individuality in store fronts. The dude, the smark aleck, the sluggard, the solid citizen and the pretentious humbug find their exponents in the fronts of different Hardware stores, just as certain types of femininity are exhibited in others in other lines of trade, The store front should be made inviting in appearance and in general effect set forth the character and magnitude of the business done within—or perhaps carry an impression a little in advance of the real truth, just as the proprietor's ideal is above the reality.

Next in order, and equal in importance, come the show windows, the eyes in the store's face, through which the business looks forth at the buyer, ogling and cajoling him, captivating his errant fancy and creating hot desire, or repulsing by indifference to his opinion, even as is the way of a maid with a man. There is a general recognition of the importance of having the show windows well and frequently dressed, and yet one does see lamentable cases of neglect and ill judgment in this regard—where the goods from a dozen different lines are arranged in a jumble that fails to make any impression whatever upon the casual observer, or where the same articles are displayed week after week without change. The average Hardwareman has a consuming desire for dollars, and is not wont to be sparing of exertion where anything is to be gained. So it is pretty safe to say that when his show windows are not all they ought to be it is through lack of proper knowledge or taste. The former he can remedy when he discovers his need, but if the fault lie in the latter he will do well to cast about among his clerks for latent talent or call in outsiders to help him, for the show windows, commanding the attention of the people more surely and constantly than any other one thing he can devise, can be made his very best salesman.

Window trimming. Bottles of ink have been spilled and reams of paper wasted in endeavor to tell the merchant how his windows should be trimmed, but there is one thing that the self-styled experts all seem to miss, and that is, that the window should show forth the merchant's personality. Give Jones, Brown and Smith the same assortment of cutlery for the windows and the three displays will be widely different—and they should be, with a difference founded in the peculiar quirks of the make-up of each, though to get the best results all must observe a very few—two or three—plain rules that form about all there is to three-fourths of the articles that are written concerning window display:

Cleanliness, neatness and light.

But one line of goods at a time.

Frequent changes.

The third of the silent salesmen is the advertisement, whose work lies outside the store, going to the homes and business places of the purchasing public and soliciting favors for the merchant, with accounts of bargain sales, dear to the heart of the good housewife, tools for the artisan, implements for the farmer, hammocks and bicycles for the summer girl, sporting goods for the swaggering youth and all sorts of things for the head of the family. It catches its victims when they are in a receptive mood, seeking for new impressions and devouring what is set before them in their paper. It silently tells its tale, and if it fails to interest the first time, it retires with honors and comes again and again with new temptations until it makes a customer for its sender.

This is the age of printers' ink. Great are the "ad," the "write up," the "free puff," the "reading notice" and the "fake" scheme, and thrice blessed is that ironmonger who knows how to employ them to get the maximum of results with the minimum of expense. The advertising manager of one of the great monthlies says in a burst of confidence that only about 10 per cent. of his patrons make it pay to advertise, but of the purely local

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advertisers it is probable that less than 10 per cent. find that it does not pay. A merchant must advertise, or spiders will spread their nets across his doorway. The public expects it of him and goes to buy at stores the proprietors of which pronounce them as the best and largest, with finest stocks and lowest prices—and if the proprietor doesn't know, who does?

If a fellow will tell us a thing often enough and forcibly enough, we will in time accept it as truth and finally announce it as a fact we ourselves evolved, with additions and enlargements according to the scope of our imagination. In this fact lies the power of the press to mould public opinion, and it also furnishes the wise advertiser a powerful lever for advancement if he will claim for himself and his business every advantage he truthfully can (truthfully, mind!), do it persistently and forcibly, and see to it that the people whom his advertisements draw to his store do not go away disappointed. "He that bloweth not his own horn the same shall not be blowed," and it behooves the wise blower to see that his neighbor's trombone does not drown the sound of his own penny whistle.

Fourth comes good stationery, and it is surprising how little value is often placed upon this valuable assistant to a good impression. It is recognized that the largest firms in the country all use good stationery, and the appearance of the letter alone will generally determine the commercial importance of the writer. It costs very little if any more for good, well-arranged letter heads, bill heads, statement blanks and envelopes than for poor ones, and the increased effect produced upon a prospective customer is tremendously cheap at the price, and will at times alone suffice to turn the scale of a wavering buyer's favor.

Fifth is punctuality, promptness in delivering goods, sending bills and collecting accounts. The customer who gets his goods quickly is pleased. He wants his bill at once to see that all is right regarding the price, and if payment is exacted when due he is apt to remain the merchant's friend. It is the fellow to whom extended credit is given, and who lets his bills stand until they are long past due, who falls out with the merchant, leaves him for a competitor and repays his kindness by making slurring comments to his injury.

And still the force of silent salesmen increases. The dodger, labor savers, full stocks, convenient stores, all deserve due credit for the good work they do in aiding the merchant to increase his sales. His "silent salesmen" form a longer list than that which is found upon his payroll, and the wise Hardwareman will see that they are all employed and doing their best to help him in his race for supremacy in his field of endeavor.

These papers were well received by the Association and a vote of thanks tendered to both Mr. Wiseman and Mr. Haberman.

In the evening the Annual Banquet took place in the large ordinary of the Chittenden, covers being laid for seventy-five guests. It was a most enjoyable affair, the toasts of the evening being "Our Association," being responded to by President Duffey; "Columbus," by Mr. J.H. Smith, of the Smith Bros. Hardware Co.; "Mercantile Amiability," by Mr. O. M. Scott, of Marysville; "The Traveling Man," by Mr. Fred. Smith, of the Nicholson File Co. During the evening Mr. B. W. Payne of the Payne & McDonald Hardware Co., of Columbus, favored the Association with some sentimental and humorous songs.

The speech of Mr. Smith was entertaining and witty, and is here reproduced:

SPEECH OF J. H. SMITH.

I have been requested to respond to the toast "Columbus." It is a good subject, but too big for a novice. Now if it were some small town like Toledo or Shadesville the undertaking would not be so great, as there would be less to talk about. I can tell you only a few of the many good things that Columbus can boast of.

You all know that Columbus discovered America and Americans discovered Columbus about 100 years ago. Hundreds of people yearly are discovering that it is one of the best cities in the Union. The yearly increase in the population is ample proof that this statement is true. In 1888 her population was in round numbers 83,000; in 1898 it is 140,000, nearly 65 per cent. increase in ten years. The enumeration of pupils in the schools from 1896 to 1897 was 5861. This is evidence that most of our citizens are doing their duty. If Christopher was here to-night I know he would be proud of his namesake. I wish he were here to respond to this toast.

Columbus is an old city, but she is also young and lively as a two-year-old colt. She is a city of varied and numerous prosperous manufacturing interests, and the equal of any city in the State as a shipping and trading point. Every branch of trade has good energetic representatives. A few statistics may not be amiss. The area of the city is 10,400 acres, and there are still a few lots for sale. The area of parks is 215 acres. This does not include Minerva and Olentangy Parks. If we were like some cities we would have them in the ring quick, but we want to drive out in the country occasionally. Cincinnatians cannot drive out of their corporation limits from the centre of the city and get back the same day. It will not take them any longer, however, to drive out into the country and back than it does Columbus citizens. We haven't all the farms of Franklin County in the corporation.

Columbus is not considered a manufacturing town, but if you will take the trouble to go up in the State House dome or to the top of the Wyandotte Building and look over the city you will see smoke stacks as thick as a forest in some sections, and you cannot look in any direction and not see the smoke coming out of busy factories. Even Toledo tried to slander us by saying, "We had to shovel the smoke out of the way so as to get around." They don't have to shovel it up there, but they wish they did. Goods manufactured in Columbus are sold in every civilized country in the world.

The Kilbourne & Jacobs Wheel Barrows are on the dump in foreign countries as well as at home. The Heathen Chinee rides Columbus Bicycles alle samee like Melican man. The blarsted Hinglishman takes his best girl out riding in Columbus-made buggies, and no doubt can hug her as hard as any other chap.

The Scotchman uses steel goods made by the Brown, Hinman & Huntington Co. Jeffrey's mining tools are used in many foreign mines. The Ohio Tool Co.'s planes, chisels, drawing knives, etc., are popular the country over. Harness trimmings made by the P. Hayden Saddlery Hardware Co. are on harness all over the world. The sky is lighted up every night by the King, Gilbert & Warner's steel plant, who turn out tons of steel billets, slabs and sheets daily. The Hallwood Cash Register is keeping tab on the cash in hundreds of business houses. Columbus makes paint enough to paint red, white and blue stripes clear around the United States, and could take in Hawaii and Cuba if necessary. She can also make the varnish or hard oil finish to shine it up if a fine job is wanted. We manufacture bolts, chain, files, wagon skeins, castings of all kinds, carriage Hardware, stoves, plumbing goods, cast hollow ware, brushes, iron force pumps, bar iron, steel ceilings, iron pipe, lanterns, mantels and grates, saws and many other articles that Hardware dealers sell. You see, gentlemen, that Columbus is quite a Hardware manufacturing town. If I were to try to tell you of the hundreds of other lines of merchandise that are made here it would take all night.

I will cover the ground by saying that we make everything from a Dago to a full jeweled watch. I might men-

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tion a few of the good things we have. One of them is our intercepting sewer that runs up hill at both ends, and our beautiful river is a thing to be proud of. It will be all right, however, when Mayor Black has the vacant lots utilized for potato patches. You could raise enough potatoes in the bed of the Scioto River to supply the city. It might be too wet early in the spring, but July, August and September would be all right.

We have three beautiful public parks and two of the finest pleasure resorts in the State. We have the fastest race track in the country, but it is generally a little too slow for the horse you bet on. We have as fine, if not the finest, Union Depot in the United States, and more lines of railroads enter Columbus than any other city in the State. One hundred and thirty-three passenger trains enter the Union Depot daily. This is one of the chief reasons why the Ohio Centennial should be held in Columbus. Ohio is a wheel and Columbus the hub. People can come from any part of the State quickly and cheaply. Toledo is part of the tire to the wheel, and you all know that a tire is liable to get loose and come off. For that reason it makes us tired to think that Toledo could even expect the Centennial. I lived in Toledo for two years and had to have a mosquito net over the bed, and then stay right in the middle. Even then some of the old-timers would reach me and give me the nightmare.

Columbus as a distributing point is not equaled in the State. We have hotels that any city would be proud of. The State institutions and the Ohio State University are all specimens of architectural beauty. Those you help to pay for and we thank you. The United States Barracks is another great attraction, so much so that Cleveland has been trying to steal it for two years. Columbus as a port of entry received $172,626 worth of goods in 1896 direct from foreign countries. We have 103½ miles of improved streets. They cost $4,904,289. They are not all paid for, either. The contractors got their pay all right, but the bloated bondholder will clip coupons for many a day yet. Hickory Alley is one of the liveliest streets in the city, but is not paved. It would be necessary to put down blocks a yard square, or they would be used for weapons in the numerous pitched battles that take place there. The loose dornick on that street gathers no moss.

Now, gentlemen, I hope you will not get an idea that any Columbus citizen would boast. What I have aimed to do was to give you a few facts to reflect upon. Some of you may decide to come to Columbus some time and go into the Hardware business. If you do, you will find genial, honorable and wide-awake competitors. I trust you will decide that it is the most suitable and convenient place to hold your annual convention in 1899. I can assure you a cordial welcome.

THE SESSION OF THURSDAY

began at 9:20 A.M. and opened with the question box. This was truly the interesting part of the entire meeting of the Association, and the general verdict was that it was instructive in the extreme.

The Committee on Resolutions presented the following:

Resolved, That any manufacturer or jobber furnishing goods or employing special salesmen to solicit orders from consumers or others not regularly engaged in the retail business, shall be reported by the member offended, to the secretary of this Association.

Resolved, second, That the secretary shall then correspond with the offending manufacturer or jobber, and in the event of a failure to satisfactorily adjust, report the same in his first quarterly report to each member.

Resolved, third, That the members of this Association pledge themselves to patronize such manufacturers and jobbers only as do not offend in the above particulars.

Resolved, fourth, That the above shall not be construed as prohibiting manufacturers and jobbers from soliciting and supplying large plants with material actually used in large quantities in the construction of their manufactured product.

Resolved, fifth, That the secretary is hereby directed to mail to each member of the Association and such other Hardware dealers and jobbers and manufacturers, as in his judgment is deemed advisable, a copy of these resolutions requesting their co-operation.

The foregoing resolutions were adopted unanimously.

The committee on the death of Mr. Gillum, of Chillicothe, reported the following resolutions, which were adopted:

"It becomes the sad duty of the members of the Ohio Hardware Association to solemnly recognize the overruling of a Divine Providence in the death of our Mr. H.V. Gillum, of Chillicothe, Ohio, a former member of this Association, who died at his home in Chillicothe, November 15, 1897.

"Mr. Gillum became a member of this Association February 24, 1897, and was an earnest and active member with us until his death. His life was in all respects an exemplary one; he was diligent in business, always active and earnest in his work for the advancement and the interest of his firm; he was gifted by nature with a rare business ability and social qualities.

"He moved among the people as one of them and became widely known in the community in which he lived. He was always ready to respond to the call of the needy and felt a keen interest in the welfare of his native town.

"His heart was open to the world; his friends were legion; enemies—he knew them not. It was our pleasure one year ago to listen to his wit and humor at our annual banquet given at this place. His heart was full of the fulness of his works and his tongue gave expression of the nobility of his life in his home and in public life.

"While his hands no longer labor, yet his works remain to honor his name and testify of him.

"This Association unites in extending their loving sympathy to the family in their distant home, and as further mark and token of their love and sympathy, it is ordered that a copy of these resolutions and condolence be sent to the family of the deceased, to the firm of which he was a member, be furnished to the press of his native city, and be inscribed on the record of this Assoeiation."

THE NEW OFFICERS.

The Committee on Nominations reported as follows:

For President: H. C. Wiseman, of Springfield.

Vice-President: E. L. Harris, Columbus.

Secretary and Treasurer: John F. Baker, Dayton.

Executive Committee: W. A. Remy, Mansfield; Frank Harrison, Toledo; O. M. Scott, Marysville; Geo. M. Gray, Coshocton; L. F. Stahler, Waverly; W. P. Scott, McConnellsville; C. C. Fouts, Middletown.

On motion, the report of the committee was adopted.

The time and place for next meeting resulted in the choice of Toledo, and the day, February 22, 1899.

After complimentary resolutions to the officers of the Association, to the Columbus Hardware Co., the hotel management, the Association adjourned.

The secretary suggests a special mention of the Bohemian Smoker given to the members by the Columbus Association. The affair was a most enjoyable one, about one hundred and sixty Hardware dealers being present. The evening was enlivened by a number of impromptu speeches from members of both of the Associations. A programme of music was also carried out, all the members assisting in the singing of the songs, and the zeal with which the older dealers entered into the spirit of the singing was a surprise to the younger element who were present. An orchestra assisted to entertain, being accompanied by a quartet of colored waiters. It was an evening not soon to be forgotten, and thus ended the most satisfactory annual meeting of the Hardware dealers ever held in the State. To say that they are now anxious to proceed against Toledo (next year) is but to express the situation very feebly.

The Ohio Hardware Association is now a fixed institution, and soon the dealers in the State will crowd their way to the front to enlist under its banner.

It is not the amount of money spent, but how it is spent, that makes the success in advertising.—*Exchange.*

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Coburn Trolley Track Mfg. Co.

The Coburn Trolley Track Mfg. Co., Holyoke, Mass., have published for the season of 1898 three very handsome catalogues. One of these describes in full their various hangers, tracks, fire shutters and escapes, barn door stops, etc., etc. In another is found a full description of their Patented Carrying Track systems, and in another detailed information as to their Patented Rolling Ladder systems, covering the Victor, Sumner, Coburn, Comet and Standard.

These publications are all prepared in an artistic manner in colored covers, and an examination of the same will

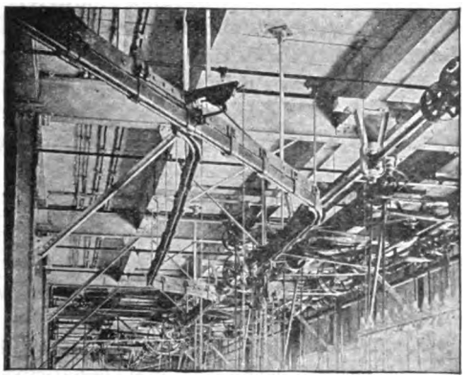


FIG. 1.

provide any dealer with a liberal education as to the various important lines of manufacture which they represent. As to their door hangers so fully described in the publication first named, they say that their stock is always full and complete, that dealers can obtain them at any time, and that since 1892 they have sold in the United States over 30,000 sets of the Coburn Door Hangers.

We are permitted in this connection to reproduce three illustrations of their patented carrying track system, and two of their patented rolling ladder system. In Fig. 1 is shown the Coburn Carrying Track System in operation in the machine shop of the Granger Foundry & Machine Co., Providence; used to place work on or off the machines. In Fig 2 is seen another part of the system, in the machine shop of the same factory. In Fig. 3 we show a system of the Coburn

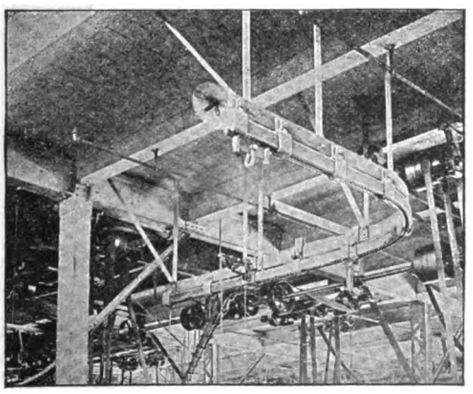


FIG. 2.

Carrying Track in operation in the die room of the Silver Spring Bleach & Die Works, Providence. These are but a few of the many effective illustrations of this system found in the catalogue, among which is seen one in operation in Holyoke, another in Springfield, others in New Bedford, Fall River, etc. A number of pages are given to diagrams showing various plans of this system, in various works, and any one who has in contemplation the addition of mechanical appliances of this character, should certainly examine this catalogue in full. The manufacturers state that parties who write for prices shold enclose a detailed sketch of their requirements, and state the maximum weight of loads which they wish to carry.

In Fig. 4 we show the Victor Ladders in the shoe store of Morse & Haynes, Springfield, Mass. These are made in various sizes and styles, prices of which will be furnished

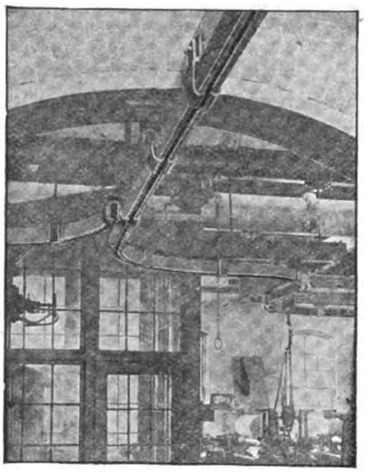


FIG. 3.

on request. A glance at the illustration shows the system in detail, and in Fig. 5 we see samples of the Sumner Ladders, with curves, in the shoe store of J. H. Fitzsimmons, at Holyoke, Mass. The work referred to above con-

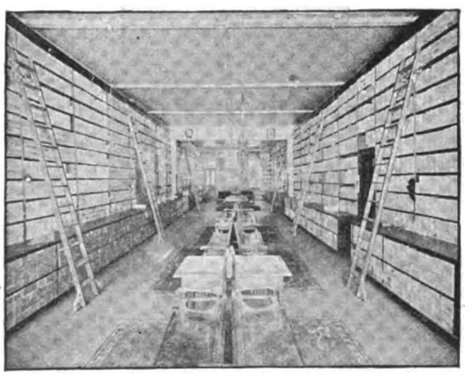


FIG. 4.

tains many other illustrations of systems of ladders, parts of the same by themselves, directions for use, testimonials, etc. The Coburn people have shown a great deal of enterprise in the preparation of these extensive illustra-

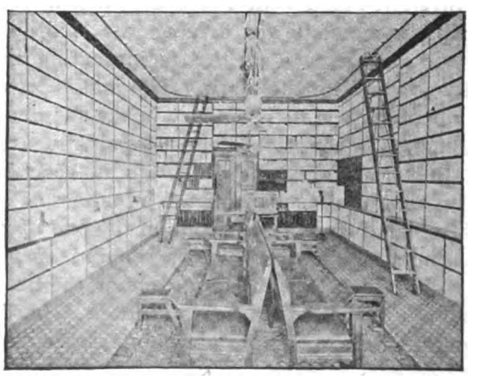


FIG. 5.

tions and descriptions of their product, but the investment certainly seems to have been one of wisdom. These catalogues will be sent on application to anyone interested.

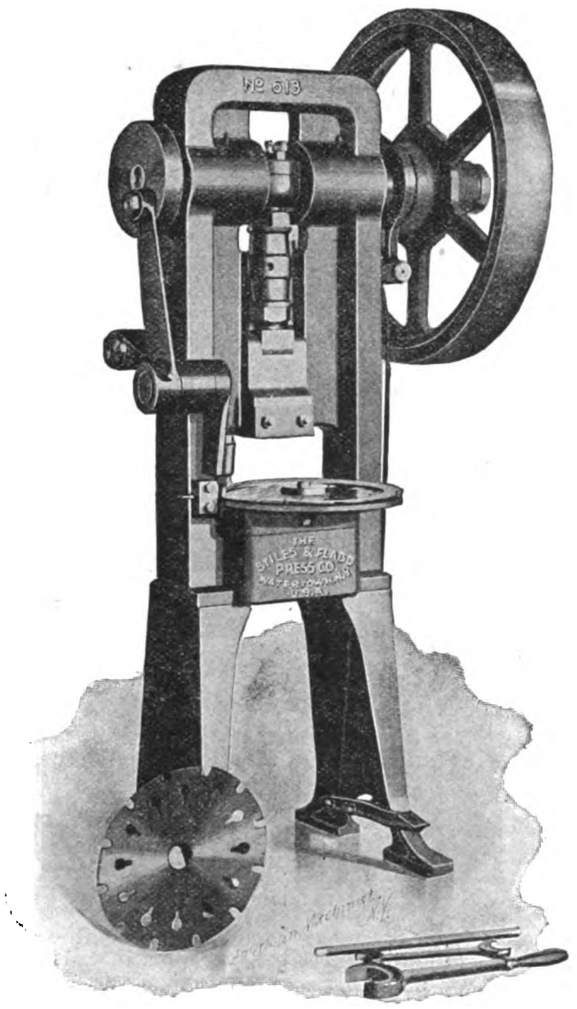
The Berlin Iron Bridge Co., East Berlin, Conn., are building a new boiler house roof for the Coe Brass Mfg. Co., at Ansonia, Conn.

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NEW GOODS AND SPECIALTIES.

A New Dial Feed Press.

We illustrate herewith a new Dial Feed Press, designed and built particularly for lettering and planishing keys. A



brief description will readily show the novelty and simplicity of its construction.

This Straight Sided Dial Press contains a very simple and novel movement for driving the dial, eliminating ratchet and pawl as well as the reciprocating movements generally adopted for the work. The dial is provided with as many openings on its periphery in the shape of teeth as there are stops in the dial. These openings are situated around the rim similar to the teeth in the regular gear wheel. The motion is transmitted by means of a walking beam suspended from a crank pin on the end of man shaft and fulcrumed on an arm which is secured to the frame; thus it will be seen that the lower end of the beam will inscribe an ellipse. To this arm is secured a hardened pin which enters the slots on the periphery of the dial and carries the dial with it until it reaches that point in its direction which would indicate the greatest horizontal travel. It is then removed from the slot by its upward travel when it returns and engages the next slot in the dial, this operation being repeated. The dial is locked in place by means of a spring pin pressing against the rim of the dial until the opening is drawn across its path, when it engages same at the instant the driving pin is withdrawn. The tapering point on the driving pin descends and removes the locking pin, and at the same time engages the disk; thus it will be noted that the disk is at all other times either engaged by the driving pin or the locking pin in every position. This prevents the possibility of throwing the dial ahead by momentum, when run at high speed.

These presses are built with solid bearings and provided with a patent stop motion of a peculiar character, which insures positive action in the direction that the press is designed to run, but cannot be thrown into action or engaged when the wheel or power may be reversed, thus avoiding an accident which often occurs on Dial Feed Presses.

These presses are built in all sizes for all classes of work by the E. S. Stiles Press Co., Watertown, N. Y., who will be pleased to furnish further data, photographs, etc.

Johnson's Portable Harness Shop.

"I expect to be sat down upon." With this pertinent suggestion opens a very interesting description of the article shown in the accompanying illustration. This is Johnson's Portable Harness Shop, manufactured by Eugene L. Johnson, No. 314 East Third Street, Cincinnati, Ohio. It is intended to fill all the requirements of that trying period when the harness breaks, and it is necessary to save the time as well as expense that would be consumed in dropping everything and making way to the harness shop. The manufacturer explains that this is a handsomely finished chest, measuring 18x8x5 in size. The lid or seat is of solid oak, securely attached with wrought steel hinges. In one end of the lid a heavy iron socket is set in flush with the top, and by a clever arrangement the sewing clamp or vise may be put in a position in a moment, solid as a rock, and in proper position, too, for either a right or left-handed man, and for sewing harness or filing a saw, key, etc. The



clamp is made of iron, strong and serviceable, and neatly japanned. When you sit down on the "horse," as it might be called, the weight of your body gives it as much solidity as if you were astride of a great, awkward, four-legged affair such as a journeyman saddler uses, and you are ready for business. The outfit consists of a good knife, an adjustable sewing awl haft, a saddler's straight awl, a sad-

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dler's bent awl, a wrench, a paper of harness needles, a ball of linen harness thread, a ball of shoemaker's wax; a box of bifurcated rivets, with a "set" for holding rivet while you drive it in, and a file. Mr Johnson adds in the circular before us the very pertinent suggestion that "even the man who is going to Klondike wants one." These articles are packed one-half dozen in a crate, and full description, with particulars, will be sent upon application.

Doughty Bicycle Bell

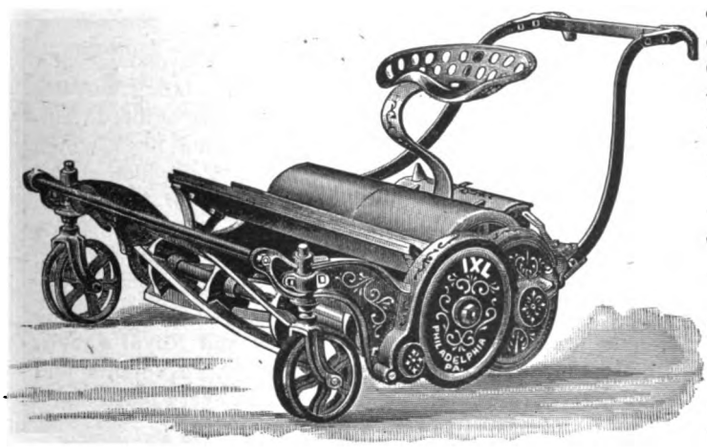
J. Doughty & Co., No. 1025 Arch Street, Philadelphia, Pa., are placing upon the market the Doughty Perfection



Automatic Bicycle Bell. It is described as made of the best bell metal, is highly polished and nickel-plated, and is warranted rust-proof. It is further described as "always ready for instant use; no loose parts to rattle or get out of order; does not roll on the tire; only press the thumb lever on the handle-bar, which throws the little rubber tip in contact with the spokes, and the bell does the rest; is easily attached, and will positively ring when riding." These are put up in neat boxes ready for mailing. Full information as to prices, etc., can be obtained by writing to the manufacturers at the address above given.

A New Horse Mower.

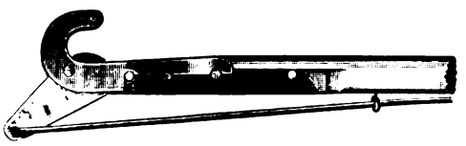
In addition to their already large and complete line of genuine Philadelphia Lawn Mowers, the Philadelphia Lawn Mower Co., Nos. 3107-09 Chestnut Street, Philadelphia, Pa., have added a new horse mower, to be known as the I. X. L., illustrated in the accompanying cut. This machine combines all their latest improvements in every detail, and is superior in quality and workmanship, and is guaranteed to



give good satisfaction and be free from any defects in manufacture. The machine is made in four sizes, 25 inch, 30 inch, 35 inch and 40 inch wide, and is furnished complete with seat and shafts. A postal card sent to the above address will bring a detailed circular of the I. X. L. Horse Mower, as well as a complete catalogue of their full line of Genuine Philadelphia Hand and Horse Mowers, Grass Collectors, Fenders and Sprinklers.

New Standard Tree Pruner.

The Standard Tree Pruner shown in this connection is offered to the trade in an improved form by Seymour Smith & Son, Oakville, Conn. In the illustration the pole and iron are cut away so as to show the metallic brace plate, which consists of a strip of steel six inches in length, in-



serted in a slot in the centre of the pole, a recess being cut in the steel to fit the washer in the head. The steel and head are securely fastened by rivets passing through all to strengthen the pole at the point of the greatest strain, reinforcing the wood in such a manner as to prevent its breaking or splitting.

Drop Handles and Escutcheons.

There is so much old furniture being furbished up nowadays, that Hardware dealers find quite a demand for drop handles and escutcheons suited for these pieces of old mahogany. Most of the work of putting them into shape is done by small furniture shops, who depend upon the local Hardware dealers for supplying them with the necessary trimmings, and they will naturally go to the store which offers them the greatest variety of suitable goods, The American Ring Co., Waterbury, Conn., make a specialty of brass trimmings for furniture and interior cabinet work, and manufacture a large line specially adapted for use on furniture of this class. Their large and finely illustrated catalogue will be sent to any dealer mentioning *Hardware*. It contains designs of all sorts of brass goods, drop handles, escutcheons, hat and coat hooks, rings, pulls, hingeplate, shade pulls and towel racks. This company also manufacture a line of sleigh bells, brass trimmings for bedsteads, curtain pole rings and fixtures, including the well-known Leslie Traverse rings, which are so designed that small rollers reduce the friction between the ring and curtain pole. The furniture trimmings made by this company are all up-to-date in design, and are well adapted to the needs of the Hardware trade. Dealers will make no mistake in writing to the firm mentioned for prices and discounts to the trade.

George P. Williams, who for many years has been associated with the St. Louis Stamping Co., Beekman Street, New York City, in the capacity of manager of their sales department, has just been appointed manager of their Eastern business in place of Mr. Brown, who recently retired. G. P. Williams is brother of T. W. Williams, second vice-president and Eastern manager of the Bissell Carpet Sweeper Co., and has been favorably known among buyers of all house-furnishing departments for many years past. We prophesy for the St. Lonis Stamping Co. a liberal increase in their Eastern business in consequence of the change just effected.

Machines for making nails are of comparatively recent invention. Ezekiel Reed, of Bridgewater, Mass., invented a machine for cutting tacks and nails in 1786, which, being improved afterwards, made 150,000,000 tacks in 1815. His son invented a machine in 1807 for making and heading tacks at one operation that turned out 60,000 a day. Samuel Briggs, of Philadelphia, patented a machine for making nails, screws and gimlets, in 1791, the first patent issued in the United States for a nail-making machine. The first patent for a cutting and heading machine combined was granted to Isaac Garrettson, of Pennsylvania, in 1796.—*Exchange.*

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Recent Trade Publications.

The Monarch Stove & Mfg. Co., Mansfield, Ohio, makers of the well-known Monarch Stoves and Furnaces, for gasoline, gas and oil, have issued a handsomely illustrated catalogue for 1898, containing nearly 100 pages, and gotten up in a most artistic manner in several colors, with illustrations upon every page. A very attractive design is found upon the front cover, while several illustrations of cooking in the various centuries fill the back cover, running from the sixteenth century, when the primitive dinner of the savage was prepared over the open fire in the forest, to the nineteenth century, when it is much more expeditiously prepared upon a Monarch Range. Full descriptions of each of their various articles are given, with prices attached, and it is a work that can be examined to the advantage of any Hardwareman, whether he is yet a dealer in stoves or not, as there is a special incentive to such dealer to handle their lighter lines of gas stoves, etc., whether he be interested in the selling of ranges or not. In a personal note to the dealer the company say: "Our Monarch line, as our trade-mark symbolizes, is emphatically the embodiment of progress. It enters its eighteenth year of public service, with the positive assurance that it has reached the high water mark of progressive development. We have made it our constant aim to incorporate into every pattern we make some original feature that will afford the pushing and live merchant an opportunity to build up a reputation for high class goods, and to reap a profitable trade from their sale. A most critical examination of every article we show will convince you, Mr. Stove Dealer, that 'the Monarch line is all right.' We will be glad to submit a line of samples for your inspection."

The Enterprise Mfg. Co., of Pa., Philadelphia, with New York office with J. C. McCarty & Co., No. 10 Warren street, have published a new descriptive catalogue of their patented Hardware specialties. Among these are found their fruit and sugar augurs, barrel jack, truck and stand; bolts, barn door; borers, bung hole; choppers, meat and food; cobblers' kitts; cutters, tobacco; cutter, slaw; extractor, meat juice; faucets, measuring and paint; gates, molasses; grater, horse radish; handles, sad iron; heaters, sad iron; holders, flag; hooks, meat; knife, cheese; mills, bone, shell and corn; mills, coffee, spice and drug; mowers, lawn; presses, fruit, drug, meat juice, lard, tincture; pressers, cork; pullers, cork; pump, self-priming and measuring; sad irons, Mrs. Potts' and Star; sad irons, family outfit of; seeders, raisin; shavers, smoked beef; shredders, ice; slicer, vegetable; sprinklers, lawn; stoners, cherry; stuffers, sausage; trap, mole. This catalogue is printed upon elegant book paper, in heavy red covers, and has been prepared with great care. It is hardly necessary to speak in detail of the well-known lines carried by this long-established house. Specific information is furnished upon each page as to size, prices, etc., of each article shown, with special directions as to use, etc. This is a publication that should be in the hands of every Hardware dealer, and will be sent upon application.

The Wells & Nellegar Co., jobbers of Hardware, cutlery, sporting goods, etc., Chicago, have issued a catalogue covering their general lines, with special reference to seasonable goods such as farm implements, refrigerators, bicycles, etc. According to this catalogue they handle everything known to the Hardware trade. This circular is sent to their friends as a reminder that they are in the market with full and complete lines of spring goods, concerning which they say: "Our goods are purchased at the very lowest figures for cash, so that we feel confident we are able to meet any competition that exists in the way of prices, supplying at the same time a much better quality of goods than is generally sent out. To our large and increasing list of customers we extend our hearty thanks for their liberal patronage during the past year, respectfully soliciting their valued orders for our entire line of goods for the coming season. Your correspondence is especially requested for quotations, Our mail order department is in such perfect working order that we feel safe in guaranteeing quicker shipments and lower prices on mail orders than our competitors are making at the present time."

The C. W. Hackett Hardware Co., St. Paul, Minn., are sending their friends their 1898 catalogue of bicycles and sundries, which is well printed and thoroughly illustrated, showing everything in the line of bicycle sundries that can be enumerated. They call particular attention to their Hackett line of wheels, and add the following in a prefatory note: "Our 'Supreme' is a new line with us this year, but one which we feel will please you in appearance and give the best of satisfaction in service. Our 'Special' and 'Roadster' are the same wheels which we have heretofore handled as 'Our Diamond,' being manufactured especially for us, and we guarantee they will give equally as good service as in the past. Our 'Great Western' is a line which the trade has for some time demanded, being up to date in style and finish, and low in price."

The White Mountain Freezer Co., Nashua, N. H., are presenting to the trade perhaps the most complete and attractive catalogue of ice cream freezers ever sent out. It is handsomely illustrated, and minutely describes the entire line of Freezers manufactured by this concern. A convenient cost and selling price arrangement is printed under the description of each machine, which enables the dealer to so prepare his catalogue as to have at all times full information regarding every detail of the style, workmanship and cost of White Mountain Freezers, for quick reference. A neat and easily comprehended telegraph code is included in contents. It is certainly a fine book, nicely and plainly printed on good paper, and should be on the desk of every dealer in ice cream freezers.

Walter W. Woodruff & Sons, Mt. Carmel, Conn., have complimented us with a handsome catalogue of Carriage Goods for 1898. This is bound in heavy boards and printed on book paper, which makes each illustration stand out with distinctness. Several pages of index are occupied in a mention of their many details of manufacture, comprising everything that can be used in connection with a vehicle, and each article is illustrated, with full information as to sizes and prices, Great care seems to have been taken in the preparation of a book which would show a dealer, whether in the carriage or Hardware line, just exactly what was needed to enable him to form his conclusions in an intelligent manner. This handsome work will be sent upon application.

The Lockwood-Taylor Hardware Co., Cleveland, Ohio, have issued a handsome catalogue for 1898 of their bicycles and sundries. It taxes fifty pages of closely printed matter, well illustrated, to show their extensive lines, which cover everything known to a wheelman, or of which he can dream in the most extensive enumeration of his wants. They announce that they have been appointed wholesale distributing agents for the Acme Mfg. Co., Reading, Pa., and as such have charge of the interests of the Stormer and Pennant bicycles for a large territory. Of the old line they will retain the Ripple, Lakeside and Royal wheels, which, they say, "in the matter of improvements and equipments are brought down to date in every particular." This catalogue will be sent upon application.

The Cleveland Stone Co., Cleveland, Ohio, are sending from their grindstone department as handsome and taking a line of advertising as it has been our pleasure to examine for some time. The circulars are printed in colors, and are "fetching," in every sense of the word, and every dealer into whose hands they fall will read every line, poetry and

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all. Timely topics of the day are discussed with incisive wit, and the illustrations are modern and unique.

The Glacier Refrigerators.

The Northern Refrigerator Co., of Grand Rapids, Mich., are sending their friends a handsome illustrated catalogue and price list for the season of 1898, of their famous Seven Wall Glacier Cold, Dry Air Refrigerators. This is printed in colors, handsomely bound and finely illustrated, and bound in the body of the work are samples of charcoal sheathing used in these refrigerators, and also of their wool felt, both of which are for insualting purposes. Illustrations of their entire line are found through this work, showing not only the refrigerators themselves, but their metallic ice racks, shelves, air- tight locks, refrigerator hinges and traps. The manufacturers have made many improvements in these goods, among which may be mentioned a complete remodeling of the design. They are now much more ornamental than heretofore, the carvings being raised instead of sunken, and the proportions and mouldings entirely remodeled. The backs and bottoms are finished as nicely as the fronts and sides, as will be seen at a glance of Fig. 1, shown herewith. Great improvement has also been made in the metal work, especially in the all metal ice racks and the removable flues. The locks of these refrigerators are made entirely in their own factory, and, the manufacturers inform us, cannot be obtained

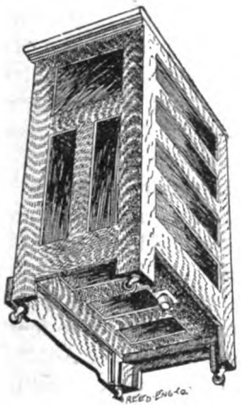


FIG. 1.



FIG. 2.

elsewhere. They are made of solid bronze, with a wedge-shaped latch, which draws the door into an air-tight joint. The door can be opened and closed with the foot if necessary. The manufacturers guarantee this "Glacier" to be as good a refrigerator as can be found in the market to-day.

In Fig. 2, herewith shown, we see their new style, No. 2551, made of solid ash, with antique finish. It has a porcelain-lined water-cooler and nickel-plated faucet, and solid bronze tumbler holder. The large ice chamber affords room for bottles, pitchers, etc.

In addition to the regular lines described, the catalogue also shows some special articles, among which may be mentioned their apartment house refrigerator, cold dry-air sideboard refrigerator, grocers' refrigerator, meat refrigerator, hardwood ice-chests, etc. In a note of introduction the manufacturers say: "We are pleased to call your attention to the elegant and greatly improved Refrigerators which we manufacture. We have had long experience in this business, and are owners of some of the most valuable patents in this line ever issued. As we have ample stock of dry hardwood lumber, the latest improved machinery, the best of dry kilns, and the most skilled workmen, we guarantee our goods to give perfect satisfaction, both as to price and quality. The capacity of our works is over two-hundred complete refrigerators per day. We have five large warehouses in which we carry a stock of over twenty thousand refrigerators at the beginning of each season. The largest dealers can place their orders with us with greater certainty of having them promptly filled than with any other manufacturer. We find there is a demand for refrigerators of artistic design, provided they are superlative in merit and of medium price. This demand we meet in our Glacier Refrigerators. Each size has a special design of great beauty. There is extraordinary merit in the seven walls for insulation, also in the Glacier air-tight locks, and the Barrett movable flues for cleaning, patented January 26th, 1892."

Missouri's Wonderful Deposit of Kaolin.

That enterprising publication at Chicago, that calls itself *Brick*, says: "Clay, which is one of the most useful portions of the earth's crust, is found nearly everywhere, but the pure form of it, having the highest refractory properties and burning a dead white color, is rare. When found, we call it kaolin, or china clay. Kaolin is found at Woodbridge, N. J., in South Carolina and other places, but still we import quantities of china clay from abroad, which does not seem quite right. The theoretical composition of clay has been stated, by authorities, to be 39.45 per cent. of alumina; 46.64 of silica, and 13.91 of water, or in round numbers, alumina, 40; silica, 46; water, 14; but this absolutely pure clay is so rarely found in nature, and in such small quantities, as to be reckoned a mineralogical curiosity. The nearest approach to it that we have ever met with on a large scale is at Warrenton, Mo. On the ranch owned by Frank Reifsnider, of Akron, O., there is an immense bed, about 80 acres in extent, of practically pure kaolin. Analysis shows that it contains alumina, 41.48; silica, 43.56, and water, 14 05 per cent., while the total impurities, consisting of sesquioxide of iron, 0.35; lime, 0.45; magnesia, 0.08, and alkalies, 0.02 per cent. amount only to one per cent., which is found to have no appreciable effect, as goods made from this kaolin burn a pure white, and fire bricks made from it exhibit the highest degree of refractoriness. There will probably be a large demand for this exceptional clay."

Goshen Sweeper Co.

The Goshen Sweeper Co., Grand Rapids, Mich., have announced a new price list under the date of March 1st, in which they call attention to a special reduction in prices. In this statement to their customers and the trade, they say: "With better facilities than we have ever had before for manufacturing, and yielding to a growing demand of the trade to secure high grade sweepers at more popular prices, we have decided upon this course, and trust our disposition to place at your command first quality sweepers, containing distinctive mechanism, at extremely moderate prices, will meet the generous response it deserves, and that we may hope for a share of your patronage." They speak further of styles and prices, which they say "will convince you that we are now offering unequalled inducements, and in these times, when customers are seeking to obtain the best possible value for the least money, it behooves the merchant to carefully discriminate in making his purchases, only stocking such merchandise as offers excellent value at a moderate price to the customer. This is precisely the position the Goshen sweeper holds on the market to-day. We shall offer this season a full line of Broom-Action sweepers, as well as our well-known and popular line of Cam-Action goods, we being the originators and sole manufacturers of Cam-Action, a patented feature embodying the simplest method yet devised for adjusting the brush to the various grades of carpets to be swept."

Smith & Bishel are about to open a Hardware store in Middletown, Conn. They are men of enterprise, and will certainly succeed in the live city which they have decided to make their permanent business home.

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The Expense of Collecting Local Checks.

It is the custom of many merchants to remit to wholesalers and manufacturers their checks on local banks in payment for their purchases. Where the bills have been sold payable in par funds in the wholesaler's city, there is a wrong in this plan of remittance to the extent of the cost of collection and loss of time on the money. Just what the expense amounts to is explained in some detail in the following extract from an article in a recent number of the "Dry Goods Economist," written by F. R. Boocock, Secretary of the National Association of Credit Men:

The magnitude of this abuse has never been so forcibly brought to my attention as it has been recently through the special study which I have given to this subject in behalf of the Association. In reference to this custom I have received figures from eighty-five mercantile houses in every section of the country, from very small cities as well as large commercial centres, and from concerns having both small and large volumes of trade. The cost to each house for collecting out-of-town checks varies with the size of the business, so that the figures submitted range from $60 to $2,500 per annum. The average cost, however, yearly, to these eighty-five houses amounts to $558.

This loss is keenly felt, and some concerted action will certainly be taken in the near future to correct this abuse. Shall it be the addition of wholesale houses of a sufficient percentage to cover this loss? This is impracticable, by reason of the fact that the "righteous would suffer with the guilty," and the very injustice be shown to those who are deserving of better treatment that the measure would endeavor to abolish.

Shall wholesale houses refuse to accept remittances in payment of maturing obligations other than those which are at par value? This is nearer to the method being pursued to-day by many houses in connection with this custom. Of course these are the concerns that are independent and that pay close attention to strict business equity rather than the allowance of every petty irregularity in order to please and hold their trade. The retail merchants of this country are not sycophants and they appreciate and honor any house that maintains regularity as to business rules and exacts conformity with their established principles. There is confidence inspired by a firm that compels compliance with its terms, that causes the customer to know that he will receive in every instance the same treatment as any one else. This confidence in the integrity and reliability of a firm attracts and holds trade to a degree that subservient acquiescence in unjust allowances can never attain.

A Novel Mountain Railway.

The mountain railway constructed on a novel plan is shortly to be opened on the Hochstauffen, near Bad Reichenhall, Bavaria. The chief feature of the new system is that the force of traction is directed vertically upward, being derived from a balloon. The latter has a diameter of 66 feet and a lifting power of 10,560 pounds. The balloon, car, net, ropes, etc., weigh 4620 pounds, and an allowance of 3300 pounds is made for passengers and aeronauts, leaving a margin of 2640 pounds. A single rail is used for the sole purpose of directing the course of the train and keeping the balloon with its load captive. To this end the rail is made T-shaped, and the car runs on it, gripping it from the sides and from below. The rail is anchored to the ground at distances of about 15 feet. In descending the mountain the propelling force is gravity, and the balloon acts as a check to prevent accelerated motion.

A ballast of water, taken in at the top of the mountain, provides the additional downward force required. The truck carries the water receptacle, which can be opened by the aeronauts during the journey. The truck and receptacle together weigh about 600 pounds, and when there is no wind the receptacle carries about 1100 pounds of water, making a total weight of 1760 pounds. When it is windy the strain between the balloon and the truck is reduced by letting the water out of the receptacle, thus compensating for the difference in power. The difference in weight caused by passengers entering or leaving the car is regulated by the use of separate weights, a sufficient number of which will be kept at the several stations.—*The Manufacturer.*

Deepest Shafts in the World.

The question of the deep shafts of the world came up in a group of mining engineers recently, and some of those present maintained that the Geyser shaft in this State was, next to the Comstock, the deepest in the United States. Prof. B. Sadtler asserted that this was an error; that the Geyser shaft is the fourth in depth in this country, and that even the Comstock was exceeded by many shafts in other parts of the world. "I have secured some information on this subject," said he, "and keep it with me for handy reference.

"The deepest shaft in the world is that of the Red Jacket, Calumet and Hecla in the Lake Superior district, which has attained a depth of 4900 feet. The next is the Tamarack, in the same district, with 4500 feet. The Comstock comes next, with 3123 feet, and then the Geyser, in the Silver Cliff district, with 2400 feet. The fifth is the Grass Valley shaft in Idaho, with 2182 feet; the sixth the Kennedy, in Jackson, Cal., with 2150 feet; the seventh, the California of this State, with 2100 feet, and the eighth is a disused shaft of the Philadelphia & Reading Coal Company at Pottsville, Pa., with a depth of 2000 feet.

"There are many deep shafts in other countries. In Belgium there are five which have attained a depth of more than 3000 feet—the Produits' colliery at Mons, 3937 feet; the Viviers shaft at Gilly, 3750 feet; the Viernoy shaft at Anderlues, 3200 feet; the Marchienne colliery, 3117 feet; and the St. Andre shaft of the Poirer colliery, 3100 feet.

"Austria-Hungary has three deep shafts—the Adalbert, 3672 feet: the Maria, 3281 feet, and the Anna, 3100 feet, all in the Przibram mining district of Bohemia.

"Great Britain also has three: The Pendleton, at Manchester, with workings 3474 feet below the surface; the Ashton Moss, at Manchester, workings 3360 feet, and the Astley Pit, Dukinfield, workings 3150 feet.

"In Victoria, Australia, there are the Lansell's Bendigo, 3302 feet, and the Lazarus Bendigo, 3024 feet.

"These deep workings show that in Colorado we have not commenced to explore the rich territory awaiting development."—*Denver Republican.*

Gas Stoves in Germany.

According to Consul Monaghan of Chemnitz, Germany, makers of gas stoves who desire to extend sales may advantageously cultivate the German market. He writes to the Department of State:

"In 1895 Germany used 733,000,000 cubic metres of gas, to produce which she burned 55,000,000 centners of coal. The number of lights was 5,734,762 (she has besides, 95,000 sixteen-candle-power electric lights furnished by 180 electric plants). She has 15,644 gas motors, giving 52,000 horse power. She uses gas for light and fuel—that is, for heating and cooking purposes. It seems to me that much might be done to put American gas stoves on the German market, as all I have seen are much dearer than equally good, if not better, ones in the United States. The Berlin city gas plant produced 103,913,000 cubic metres in 1895, against 74,337,000 cubic metres in 1885, and an English company in Berlin, 32,282,000 cubic metres in 1895, against 30,960,000 cubic metres in 1885."

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Review of the Markets.

Hardware: The month of March begins by encouraging enquiries regarding the future of prices, with orders among the wholesale trade increasing in number, and also in volume of goods. The magnificent weather, so perfectly springlike, which has been vouchsafed us, has doubtless done its share toward getting the roads in the interior in passable condition, and bringing the farmer buyers to their markets in the country towns. While no great changes in quotations are especially noticeable, the evident belief that prices are very favorable as compared with the lowest quotations previously given, will do a great deal to make trade open early, and retailers, jobbers, and manufacturers all experience a corresponding benefit.

Wire Nails: As the season advances, a sustained enquiry is noticeable, having reference to this staple line. The stocks purchased under the more favorable conditions of the past four weeks are gradually being disposed of, and while the sales for March so far, at the advanced quotation previously agreed upon, have not been as large as desired, it would indicate there were local stocks in the jobbers' hands fairly large enough to draw upon, while the current quotations are sustained. We quote: carload lots, f. o. b. mill, $1.55 at either Cleveland or Pittsburg, with a reduction of 5 cents a keg for above quantity to jobbers. New York quotations for carload lots are $1.65@$1.70 on dock, smaller lots from store being held at 5@10 cents a keg advance.

There is some doubt expressed by the leading houses in the trade as to the probability of the wire and nail interests becoming consolidated as was originally contemplated. The scheme is so vast in its proportions and so far reaching in its effects that some fresh obstacle to its successful accomplishment is constantly arising. As the possibility of some such arrangement has not had any radical effect in materially advancing prices, the trade can await results as to its certain consummation with perfect equanimity.

Cut Nails: There is but little of interest to report in the cut nail market. The apathetic conditions prevailing for several weeks still continues, business being very moderate and quotations ruling low. New York quotations are $1.20 for carload lots on dock, and $1.30 for smaller lots from store.

Builders' Hardware: There are some signs of an early improvement in this important line. Prices continue very low, and with the prospect of an unusually brisk demand as soon as the spring trade opens, it is anticipated that jobbers will order early stocks and urge prompt delivery, in order to be prepared to fill the requisitions from the smaller trade, as local stocks were never in a lighter condition.

Files: A large and constantly increasing business is being reported by the leading manufacturers of these important goods. Stocks throughout the country in the hands of retailers are reported in excellent condition for replenishing, and the jobbers, availing themselves of the favorable condition of the trade since the change in the list prices on July 1, 1897, are stocking up with confidence, as to the requirements of the spring trade, the general demand being excellent wherever heard from.

Linseed Oil: The Dean Linseed Oil Co., No. 181 Front Street, New York, quote as follows: In lots of less than 5 barrels, 44 cents per gallon; in lots of 5 barrels or more, 43 cents per gallon. The 5-barrel price only applies to deliveries of that quantity at one time. Boiled linseed oil, 2 cents per gallon higher than raw. Calcutta oil, 54 cents per gallon. Above prices are subject to change without notice.

THE OMAHA TRADE.

February business closed up with a handsome increase over the corresponding period of a year ago, and March promises even more satisfactory results. Orders are coming in, both through salesmen and by mail, better assorted and covering more lines than has been the case for several years past. The country generally is in position to buy goods and pay for them, and the merchants, therefore, are anticipating their wants to a better extent and carrying goods in stock to supply the demands of their trade, and, consequently, the situation is all that can be desired.

On account of the excessive competition, season goods are being held at an extremely small margin of profit, but most of us have grown accustomed to being satisfied with a small profit and do not expect the returns that we would have looked for several years ago.

RECTOR & WILHELMY CO.

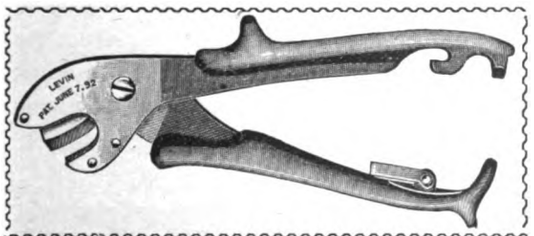
THE DAVENPORT TRADE.

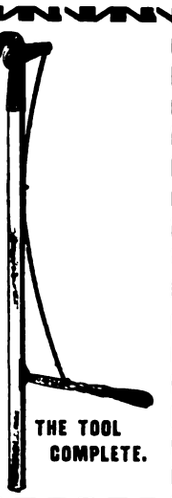
Winter still lingers in the lap of spring. There is ice in the river and snow in the fields. It is too late for winter goods and too early for articles that are used in spring. February sales are about an average for this short and unusually dull month. Traveling salesmen too frequently get promises for next trip instead of orders now. Mail orders are numerous, but call for small quantities, indicating light stocks in the hands of dealers. The hand-to-mouth policy prevails, which promises to continue until something happens to change conditions that have so long tended towards reduction in values. Over-production prevails. The whole country seems to have too much of everything except profits.

SICKELS, PRESTON & NUTTING CO.

THE PITTSBURG TRADE.

War scares affect the stock market quickly, and scale down millions of values in an hour, but we fail to see anything in the present situation that should injure the general

THE LEVIN PRUNER.
Endorsed by Gardeners, Nurserymen and Ladies.
No. 23 cuts ¾ inch dry oak. Weight, 7½ ozs each.
No. 24 cuts ¾ inch dry oak. Weight, 13 ozs. each.

"They will outlast and outcut and do the work easier than any other Pruner we know of."—
JACKSON COUNTY NURSERY CO.

The New Standard Tree Pruner.
PATENTED NOV. 9, 1897.
Made with our patent metallic brace plate, which absolutely prevents the pole from splitting or breaking. Greatly increasing strength and durability.
MANUFACTURED BY
SEYMOUR SMITH & SON,
OAKVILLE, CONN., U. S. A
Sole Agents: . . .
JOHN H. GRAHAM & CO.,
Send for circulars and discounts.
113 Chambers St., New York.

THE TOOL COMPLETE.

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business of this great country. As has been well said, England will carry on two or three wars in various parts of the world at the same time, and yet affairs move on smoothly at home, while we are unduly excited at the mere mention of war with such a third-rate power as Spain. Our national honor and the suffering Cubans should be protected, and we have no doubt will be safe in the hands of President McKinley should it become necessary to declare war, but if war does come, the business of this great land will not stop, nor even be retarded very long. The great interior will buy and sell and prosper. The coast cities will be more or less inconvenienced for a time, but it cannot last long; in fact we hardly believe Spain would dare to actually begin a war that could have but one ending, that is humiliation and loss to herself.

March is opening up with good promise of increased business. Bad roads in the country districts are the drawback just now. It is amazing how much discomfort and loss the farmers will suffer every year rather than pay out the money to properly improve the roads.

Pittsburg's supremacy as a steel producer is again announced in Mr. Carnegie's claim to lay down ship building material in New York twenty-five per cent. below the price at which English mills can deliver it on the Clyde. We are certainly attaining a very strong position in the manufacturing world.

LOGAN-GREGG HARDWARE CO.

THE CLEVELAND TRADE.

The murmur of discontent among the laboring class begins to appear among the middle class of traders also. Combinations of wealth it is said intend to crush traders of modest means. The spirit of altruism that Mr. Drummond insists is an integral part of the strife for existence, seems to have little influence.

The large jobber who once made his prices based on legitimate profit, now makes and changes them with a view to destroying his smaller competitor.

Under these conditions respect for the wealthy is beginning to turn to hate, and socialism feeds on the faults and cruelty of competition, which has been supposed to be the life of trade. Added to this the publications in the daily press, describing the extravagant expenditure of the rich, help to increase this dislike, and suggests a union of the middle and poorer classes to protect themselves. Less parade of the wealthy of their luxury would be patriotic, for arrogant selfishness breeds an epidemic, but the optimist may hope that these disagreeable manifestations will decrease with time; that the second generation will wear their honors with more becoming grace, and find more satisfaction in use, and less in spectacular extravagance. Sudden wealth is a severe test for individuals or nations.

The improvement in business so far in 1898 has been mostly in manufacturing interests. This is well, as it affects the laborer, who mostly needed help. When they recover from the debts that had accumulated, they will become an important factor in helping other lines of business, and an era of debt paying will be a benefit to the country.

Notwithstanding the talk of good times, average prices have declined since January 1st, and the prudent merchant will look carefully to his expense account if he contemplates comfort from his '99 balance sheet. Consolation may be found in the fact that good times are sure to get here, and that increase in business may soften the grasping tendency and give the middle class an opportunity to make a living again. Unless something definite is settled this month regarding prices, the year is likely to be unsatisfactory to jobbers and retailers, as each month will reduce the value of their stock. The optimism shown by your correspondents for the past six months has been mostly inspired by hope, and unless its fruition appears soon it will not be maintained.

It is not amiss to give some heed to complaints even if they are made by the pessimistic spirit. The middle class is the hope of all countries, and if it is true that combinations of wealth, having exhausted the poor, are now preparing to wipe out the middle class, legislatures must recognize that the right to life is superior even to the right of property, and as an ounce of preventive is worth a pound of cure, it may be wise to listen in time.

Trade for February is somewhat better than it was last year, but last year is a very poor measure of prosperity.

THE LOCKWOOD-TAYLOR HARDWARE CO.

THE CHICAGO TRADE.

If our present trade is any indication of what we may reasonably expect when we have spring weather and the retailers become reasonably busy, all we can say is that we will probably have to put on an extra force of employees to work nights as well as day time. We are quite well equipped to take care of all the business that is offering and likely to come to us; at the same time would state our increase of business this month in comparison with February of the last half dozen years is very large indeed, and one very good thing about it all is the fact that our orders are not very large in one particular locality, but are made up mostly in small quantities from customers in all sections of the Great Northwest.

It is quite plain to our eyes that the reason why retailers are ordering in small quantities and placing the phrase "Rush this order through" on their communications, is because their stocks of goods are quite low, and they are only ordering from hand-to-mouth during the winter months and are awaiting the opening up of the ground and the spring demand from consumers before branching out and making their orders larger. When this time arrives we feel that orders will double and triple in size. Prospects were never better throughout the Northwest. During the

THE FEATURES

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

of first-class Garden Hose are: First—a water way of elastic, seamless rubber; second three or more plies of sound, strong duck to back up water way and strengthen it against the heavy internal pressure; third—layers of tenacious, "grippy" rubber to bind the plies of duck into one solid, cohesive body; fourth—a cover of tough, durable rubber to protect the outer ply of duck from injury. **We make eight brands of Garden Hose, each built on the above lines, and each having some special feature of usefulness.** Send for samples, prices and "Your Silent Salesmen."

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Philadelphia...308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.
Cleveland.. W. H. H. Peck Co.
N. Orl's, Woodward, Wight & Co.

NEW YORK BELTING & PACKING CO. LTD

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past two weeks on this market we have experienced quite a rise in the value of wheat, oats and corn, and we are informed that the export business in oats has not been so large in a long while as it is at the present time. With present prices for oats and corn, farmers are rapidly bettering their condition and will be able during the coming spring and summer to make their many needed improvements. Prices are being well maintained in this locality, and we are pleased to state that we have no word of complaint to make with our own situation. We have now three stocks of goods on our floors going out this week.

WELLS & NELLEGAR CO.

THE BOSTON TRADE.

Those who looked forward to a grand boom in the Hardware business during the early months of the year, have not had their hopes fully realized, yet it can be thoroughly said of New England trade that the volume is satisfactory as compared with previous years of general depression.

We are pleased to learn that our Western friends are placing such large orders in anticipation of renewed activity, and certainly hope that between "dollar wheat" and "Klondike gold" they may receive their full share of the profits.

Prices are fairly firm, and there seems to be an absence of the periodical desire to cut in seasonable goods.

The advance in wire nails and barbed wire was a surprise in some quarters, as a recent report indicated that a consummation of the trust might be a failure. There are a large number of orders being placed for these goods, and business in that line during the present month will be very large.

The deep snows in northern New England have been a detriment to lumber and other interests, and in some localities it is almost impossible to stir on account of the condition of the roads.

Seasonable goods are being called for and with a good outlook for the bicycle trade. The retail dealers seem to be looking to their jobbers who carry a stock of these goods and draw upon them as wanted.

FRYE, PHIPPS & CO.

THE COLUMBUS TRADE.

The weather has been of the uncertain kind during the past ten days, and the country roads are in a bad condition. Some of them have a good bottom when you get down to it, but it is several feet below the surface, while in other places the bottom has dropped out. I remember seeing a suggestive warning in a mudhole during my wanderings in quest of trade. Some one stuck a stake in a bad place in the road, and by the stake was an old horse collar and the bleached skull of a horse. I took it for granted that everything had disappeared in the mud but the horse's head, and the collar naturally would slip off his head as he went down. I steered clear of that hole. That reminds me of the story of two men meeting in a muddy road. One was on a horse and the horse was stuck; the other man apparently was on foot. So the man on the horse said, "My friend, you will never get out of that mud without help," and was greatly surprised when the man informed that he was all right, as there was a mule under him.

Spring will soon be here, and it will not be long before the roads are good, and then we expect to receive duplicate orders thick and fast. Merchants generally stock up pretty liberally soon after the first of the year, and then there is a little lull until the weather settles and they move some of their early purchases.

Trade is very much better so far this year than a year ago, and we believe it will be so through the year. Prices are none too firm on many goods, and manufacturers are watching their trade with jealous eyes and seem ready to meet any legitimate price. It can be truthfully said that misrepresentations are numerous. You hear of prices that look unreasonable, and if you chase them down they are about as reliable as the war news you read in the daily papers. There are lots of men in business who would not dare use a George Washington hatchet for an emblem.

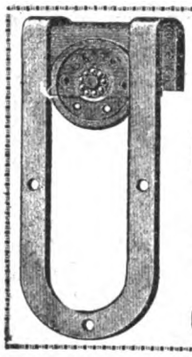
The State Hardware Convention was a success from every standpoint. The attendance was good, and we are told that the business sessions were profitable to the members. Many good and instructive papers were read on different topics pertaining to Hardware, and how to make the business pleasant and profitable. We know of only one mistake they made, and that is that they are not going to meet in Columbus next year. Our friend Harrison, of Toledo, enthused the members by his brilliant oratory to such an extent that they forgot about Toledo being a way-station, until it was too late. If the vote had been taken about midnight last Thursday during the Bohemian Smoker, Toledo would not have received a vote. Did we have a Bohemian Smoker? Well, yes; I think we did, and if our neighbor city of Toledo beats it, it will be because Columbus gave the Toledo gentlemen pointers how to do it. That Smoker was a happy winding up of the State Hardware Convention of 1898. Everybody was delighted with it, and that special brew developed musical talent that was not known to exist before. Any one can sing under favorable conditions, and we think the conditions were never more favorable than they were that night. We did not have frogs, but there are more hops in a bottle of special brew than in a Toledo frog. SMITH BROS. HARDWARE CO.

THE PHILADELPHIA TRADE.

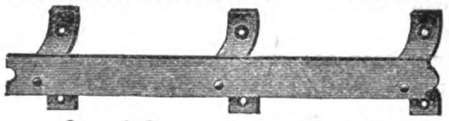
March has opened with unpropitious weather, but trade is moving along in even volume, although the sale of seasonable goods is probably somewhat delayed by reason of the low temperature.



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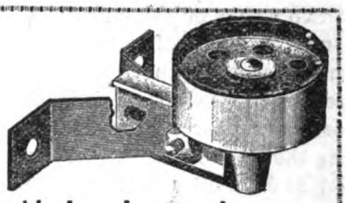


Steel Door Hangers, Nos. 0, 1 & 2.



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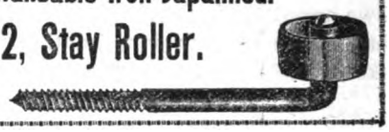
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Malleable Iron Japanned.

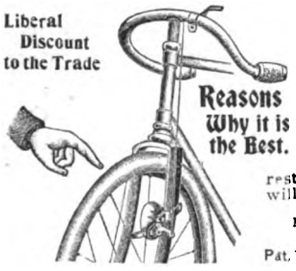
NEY MFG. CO.,

No. 2, Stay Roller.



GET OUR PRICES. CANTON, OHIO.

Liberal Discount to the Trade



Reasons Why it is the Best.

The DOUGHTY Perfection Automatic Bicycle BELL.

Made of best Bell Metal, highly polished and nickel-plated, Anti-rusting The only Automatic Bell always ready for instant use (fast or slow speed.) No loose parts to rattle and get out of order. Does not roll on tire—only press thumb lever on handle bar—throws little rubber tip in contact with spokes—Bell does the rest. The only Bell with a clear electric ring without a battery. You will pronounce it the Perfection in Bell ringing. **Price $1.00 each**

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For Sale.

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STUBS' TOOLS.

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HAMMACHER, SCHLEMMER & CO.

DIRECT IMPORTERS

209 BOWERY NEW YORK.

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past two weeks on this market we have experienced quite a rise in the value of wheat, oats and corn, and we are informed that the export business in oats has not been so large in a long while as it is at the present time. With present prices for oats and corn, farmers are rapidly bettering their condition and will be able during the coming spring and summer to make their many needed improvements. Prices are being well maintained in this locality, and we are pleased to state that we have no word of complaint to make with our own situation. We have now three stocks of goods on our floors going out this week.

WELLS & NELLEGAR CO.

THE BOSTON TRADE.

Those who looked forward to a grand boom in the Hardware business during the early months of the year, have not had their hopes fully realized, yet it can be thoroughly said of New England trade that the volume is satisfactory as compared with previous years of general depression.

We are pleased to learn that our Western friends are placing such large orders in anticipation of renewed activity, and certainly hope that between "dollar wheat" and "Klondike gold" they may receive their full share of the profits.

Prices are fairly firm, and there seems to be an absence of the periodical desire to cut in seasonable goods.

The advance in wire nails and barbed wire was a surprise in some quarters, as a recent report indicated that a consummation of the trust might be a failure. There are a large number of orders being placed for these goods, and business in that line during the present month will be very large.

The deep snows in northern New England have been a detriment to lumber and other interests, and in some localities it is almost impossible to stir on account of the condition of the roads.

Seasonable goods are being called for and with a good outlook for the bicycle trade. The retail dealers seem to be looking to their jobbers who carry a stock of these goods and draw upon them as wanted.

FRYE, PHIPPS & CO.

THE COLUMBUS TRADE.

The weather has been of the uncertain kind during the past ten days, and the country roads are in a bad condition. Some of them have a good bottom when you get down to it, but it is several feet below the surface, while in other places the bottom has dropped out. I remember seeing a suggestive warning in a mudhole during my wanderings in quest of trade. Some one stuck a stake in a bad place in the road, and by the stake was an old horse collar and the bleached skull of a horse. I took it for granted that everything had disappeared in the mud but the horse's head, and the collar naturally would slip off his head as he went down. I steered clear of that hole. That reminds me of the story of two men meeting in a muddy road. One was on a horse and the horse was stuck; the other man apparently was on foot. So the man on the horse said, "My friend, you will never get out of that mud without help," and was greatly surprised when the man informed that he was all right, as there was a mule under him.

Spring will soon be here, and it will not be long before the roads are good, and then we expect to receive duplicate orders thick and fast. Merchants generally stock up pretty liberally soon after the first of the year, and then there is a little lull until the weather settles and they move some of their early purchases.

Trade is very much better so far this year than a year ago, and we believe it will be so through the year. Prices are none too firm on many goods, and manufacturers are watching their trade with jealous eyes and seem ready to meet any legitimate price. It can be truthfully said that misrepresentations are numerous. You hear of prices that look unreasonable, and if you chase them down they are about as reliable as the war news you read in the daily papers. There are lots of men in business who would not dare use a George Washington hatchet for an emblem.

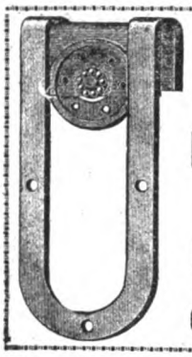
The State Hardware Convention was a success from every standpoint. The attendance was good, and we are told that the business sessions were profitable to the members. Many good and instructive papers were read on different topics pertaining to Hardware, and how to make the business pleasant and profitable. We know of only one mistake they made, and that is that they are not going to meet in Columbus next year. Our friend Harrison, of Toledo, enthused the members by his brilliant oratory to such an extent that they forgot about Toledo being a way-station, until it was too late. If the vote had been taken about midnight last Thursday during the Bohemian Smoker, Toledo would not have received a vote. Did we have a Bohemian Smoker? Well, yes; I think we did, and if our neighbor city of Toledo beats it, it will be because Columbus gave the Toledo gentlemen pointers how to do it. That Smoker was a happy winding up of the State Hardware Convention of 1898. Everybody was delighted with it, and that special brew developed musical talent that was not known to exist before. Any one can sing under favorable conditions, and we think the conditions were never more favorable than they were that night. We did not have frogs, but there are more hops in a bottle of special brew than in a Toledo frog. SMITH BROS. HARDWARE CO.

THE PHILADELPHIA TRADE.

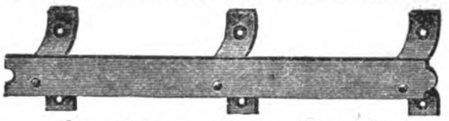
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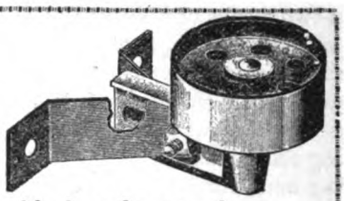


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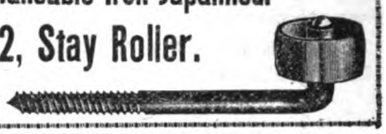


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Don't MUTILATE Your papers with pins or fasteners but use the "GEM" PAPER CLIP

GEM PATENTED.

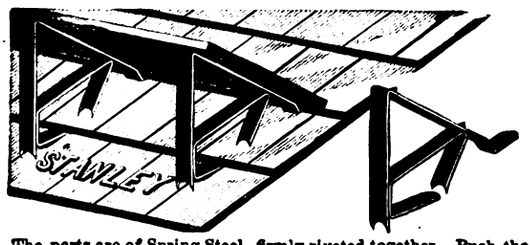
Only satisfactory device, for temporary attachment of all kinds of papers. Quickly applied and removed. **25 Cents a Box. . . .**

CUSHMAN & DENISON, 174 9th Ave, New York.

STANLEY'S PATENT Roofing Bracket.

STANLEY
Rule & Level Co.
New Britain, Conn.

SOLD BY ALL HARDWARE DEALERS.



The parts are of Spring Steel, firmly riveted together. Push the beveled ends up under two layers of shingles, already nailed down; the Bracket has two separate bearings on the roof, and is so formed that any increase of pressure from above, increases its stability.

One dozen per minute can be placed in position, or removed; and great economy in lumber and nails will be found. There are no loose parts to get lost; and no nail-holes are made in the roof. In constant use these Brackets will last a life-time.

No. 1. Roofing Brackets, 8 inch, ½ dozen in box. Per Doz., $3.00

Blacking Bright Steel Work.

The following direction for oxidizing and blacking the bright work of steel in lieu of paint, to stand heat and wear well, is taken from a recent issue of the *English Mechanic:* "Take three ounces of glacial acetic acid, mix it with its weight of water; to this add half an ounce of powdered nut gall, and let stand for a day or two, shaking it up occasionally; then let it settle; then pour off the clear, then put a pint of water to the residue. When cold and settled pour off the clear and mix with the first. Now to this add a grain of nitrate of silver or sulphate of copper, or nitrate of copper. Dissolve whichever you use in a little hot water before mixing with the other liquid. Silver is the best process. Clean all oil off, and rust or scabs, paint, etc."—*Industrial World.*

Prepared.

"I have ordered everything," he said, sinking wearily on the sofa.

"Did you see about the stoves?" his wife asked.

"Yes, I bought fourteen of them—a coal stove and a gas stove for each room."

"And the coal?"

"Yes; forty tons and eight cords of wood. They will all be delivered at our new place tomorrow."

And next day they moved into their Harlem steam-heated flat.—*Evening Journal.*

The Bristol & Plainville Tramway Co. are erecting near Plainville, Conn., a new substantial steel bridge, having a span of about ninety feet. The bridge has been designed with a view of being a permanent structure, well able to take care of the increasing and heavy traffic of the road. It has been furnished, and is now being erected by the Berlin Iron Bridge Co., East Berlin, Conn.

You do not add anything to the goodness of your own name by trying to give disrepute to the "other fellow."

IMPORTANT AUCTION NOTICE.

Special Sale of Hardware and Tools.

First Quality D. H. & L. H. SHOVELS and SCOOPS, PLANTERS' HOES, STEEL RAKES, &c., &c.

E. BISSELL, SON & CO.,
AUCTIONEERS,

Wednesday, March 16th, 1898, at 10 o'clock, at Nos. 12 Murray St. & 15 Park Place, N. Y.

SPECIAL AND UNRESERVED SALE OF

Shelf Hardware and Tools,

Comprising a large assortment First Quality **SHELF HARDWARE,** direct from Manufacturers, including in part, a large assortment of

COAT and HAT HOOKS, BRONZED BOLTS, BRONZE DRAWER PULLS, SASH FASTS, SASH LIFTS, SHUTTER KNOBS and HOOKS, WINDOW and CUPBOARD CATCHES, STORE DOOR HANDLES and LOCKS, MORTISE and RIM KNOB LOCKS, &c., &c. . . .

Also BRONZED PORCELAIN, MINERAL and JET DOOR KNOBS, BRONZED, PLAIN and JAPANNED BUTTS,

To be Sold in Case and Open Lots, also

Cast Steel Nail, Riveting, Engineer's and Ball Pein Hammers, Hatchets, Axes, Auger and Car Bits, &c., &c.

Also, at 1 o'clock, about 500 DOZEN

D. H. & L. H. Steel Shovels and Scoops, Polished and Black, Square and Round Point—all new goods.

Assorted 1st, 2d, 3d and 4th grades, perfect goods and manufactured by Messrs. B. ROWLAND & CO., of Philadelphia.

Also, a line of **First Quality Handled Shank and Socket Planter's C. S. Hoes, 6, 7, 7½, 8, 8½ inch.**

—— **Dozens Curved Tooth Blued Steel Rakes, 10, 12, 14 and 16 inch, &c., &c.**

The assortment of goods in this sale will be **worthy the attention of Hardware buyers.** All Shovels, Scoops, Rakes and Hoes are **in store, ready for immediate delivery,** and being **First Quality and Sold Without Reserve,** their sale should merit the attendance of the trade. **Catalogues ready March 12th.**

"SCIOTO" for R. R. or Canal Work.

A thoroughly first class bolted barrow. Full sized Tray. Well planed, cleated, braced and bolted. Legs and cross pieces gained. Knocks down for shipping and is easily set up.



THE KILBOURNE & JACOBS MFG. CO.,

COLUMBUS, OHIO.

Producers of BARROWS, SCRAPERS, ROAD MAKING MACHINERY, STEEL SHAPES, Etc., Etc.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Cazenovia, N. Y.—Marshall & Bumpus.
Coldwater, Mich.—Cox & Williams.
Decatur, Ala.—Kinney Bros.
De Witt, Mich.—V. Clavey.
Manistique, Mich.—C. J. Thoenen.
Middletown, Conn.—Smith & Bishel.
Mt. Pleasant, Tex —J. R. Hopkins.
Northville, Mich.—Cox & Higley.
Sturgis, Mich.—C. O. Gardner.
Zeeland, Mich.—J. Pyl.

Changes and Improvements.

Bay City, Mich.—F. E. Sovey, Hardware, will erect new Hardware store on Woodside Avenue.

Blooming Grove, Tex. — Caruthers & Smith, Hardware, succeeded by F. W. Caruthers, Jr.

Bowerston, Ohio.—Price & Co., Hardware, sold out.

Brooksville, Fla.—J. W. Cooman & Co., Hardware, dissolved, J. W. Cooman retiring, and B. D. Thomason continuing the business.

Central City, Neb. — L. H. Reynolds, Hardware succeeded by Morris & Osborn.

Chandler, Minn.—J. M. & O. Johnson, Hardware, etc., succeeded by J. M. Johnson.

Chattanooga, Tenn. — The Tom Fritts Hardware Co., and the firm of Thomas W. Fritts & Co. have been consolidated.

Chula, Mo.—W. H. Long, Hardware, succeeded by Long & Moore.

Circleville, Ohio.—John Schroder has entered into a partnership with his uncle, F. C. Nuzman, in the Hardware and lumber business and the firm will henceforth be F. C. Nuzman & Co.

Clio, Mich.—M. E. Mann, Hardware, succeeded by Chas. H. Mann.

Cohoes, N. Y.—Burbanks & Co., Hardware, succeeded by Burbanks Hardware Co.

Comanche, Tex.—Moore, Hogan & Nabers, Hardware, have been succeeded by Hogan & Nabers.

Concord, N. H.—John T. Fiske, proprietor of the long-established sporting goods store at No. 152 North Main Street, has disposed of the business to Arthur C. Sanborn, whose son, Frank, will, it is understood, manage the store in the future.

Deep River, Ia.—John Blakely has sold his interest in the Hardware firm of Wassen & Blakely to S. S. Axtell.

Dolgeville, N. Y.—Charles Dedicks' Hardware and plumbing establishment has been moved to the McDougal block.

Grinnell, Iowa.—M. L. Norris & Sons, Hardware, Commercial Street, have sold their business to Marvin Bros.

Hanover, Mich.—Mrs. Ida Culvert, Hardware, etc., business purchased by Myron Thompson & Sons.

Hawley, Pa.—George Ammerman has purchased an interest in the general Hardware business formerly conducted by Malfield & Purdy, Main Street, Carbondale. The new firm will be Malfield, Purdy & Co.

Houston, Tex. — The Whittlesey Hardware Co. have moved to Nos. 209–211 Travis Street.

Hubbard, Iowa. — White & Van Petter, Hardware, succeeded by John V. White.

Hull, Iowa.—Harrington & Huibregtse, Hardware and agricultural implements, succeeded by Huibregtse & Daane.

Johnstown, Ohio.—M. Kassan has disposed of his Hardware store and is going to move on his farm soon.

Lake Forest, Ill.—Mr. Angus, Hardware, Chicago, is about to open a branch store at Lake Forest.

Malvern, Ohio.—Crawford & Hemming, Hardware, sold out.

Marshall, Mich.—French Bros., Hardware, have sold out to C. W. Casper.

Marysville, Kan.—L. E. Fox, Hardware etc., selling out.

Millburg, Mich.—The Coloma Hardware Co., David Friday, of Bainbridge, has purchased an interest in the business.

Newburgh, N. Y.—Scharbauer & Sargent, who have for several years conducted a wholesale and retail Hardware business at No. 20 Water Street, have decided to close out their business and retire by April 1st.

New Albany, Ind.—W. A. Loughmiller has succeeded Loughmiller Bros. in the Hardware business. He will continue the business at the old stand, carrying a general line of Hardware. He has been manager for the late firm for the past fifteen years.

New Richland, Minn.—G. Gorgen & Son, Hardware, succeeded by Gorgan & Swift.

Pontiac, Mich.—The Pontiac Hardware Co. have been succeeded by Zimmerman Bros. & Alger, who have taken possession. The stock will be greatly enlarged.

Rockdale, Tex.—J. W. Hamblen, Hardware, has closed out his business to Henne & Myers.

Rutherfordtown, N.C.—The Dixon Hardware Co. have given the contract for a large warehouse.

Scotland Neck, N. C.—A. P. Hyman has purchased Hardware store heretofore conducted by B. B. Sherrod, and will conduct same.

Sherman, Tex.—The E. Hardwicke, of the firm of Roberts, Hardwicke & Taylor Co., wholesale Hardware dealers, has disposed of his interest in that concern to W. C. Eubank, of the firm of Patty, Joiner & Eubank Co.

Spicer, Minn.—P. H. Parsons, Jr., Hardware, etc., succeeded by Thorsen & Larsen.

St. Paul, Minn. — McDonough & Bowers, Hardware, succeeded by Joseph Michael.

Syracuse, N. Y.—The Hardware firm of Grant & Dunn have dissolved, Alexander Grant continuing.

Vienna, Ill.—J. A. Parker, Hardware and undertaker, sold out.

Villisca, Iowa.—F. F. Jones & Co., Hardware and agricultural implements, succeeded by Farlin Bros.

Waldron, Mich.—J. W. Houston, Hardware, has sold out to Mr. Gish.

Washington, D. C.—John T. Campbell & Son, Hardware, succeeded by J. Frank Campbell.

Waynesville, N. C.—C. S. White, stoves and tinware, L. A. Miller has joined him in partnership, and the firm name will be changed to White & Miller.

Woodsfield, Ohio.—Lude & Egger have considerably enlarged their storerooms and will be better prepared hereafter to carry a larger and better assortment of goods.

Business Embarrassments.

Baltimore, Md.—G. W. Buck & Co., Hardware, receiver applied for.

Boston, Mass. — Judith Gordon, Hardware, etc., reported to have made an assignment.

Bowling Green, Ohio.—J. L. Dull, dealer in implements, has made an assignment to W. W. Mullalley.

Bremen, Ohio.—Samuel J. Blosser, dealer in Hardware, has assigned to Jesse A. Rowles. Assets, $2000; liabilities, $1000.

Jackson, Miss.—C. Daley & Son, Hardware merchants and tinners, have made an assignment. Liabilities about $1700, with assets of about $771.55.

Petersham, Mass.—J. D. & C. H. Glasheen Co., Hardware dealers, have made an assignment.

Quincy, Mass.—John T. Newcomb, dealer in Hardware, paints and oils, has assigned. Liabilities, $6770.11.

Burglaries in Hardware Stores.

Chicago, Ill.—L. S. Wilkinson & Co., Hardware, No. 51 Dearborn Street, burglarized, and $200 worth of articles stolen.

Providence, R. I. — Belcher & Loomis; revolvers and cutlery taken.

Purcell, I. T.—Quigg & Berringer; small loss.

Recent Fires.

Albany, Ind.—Paxton Bros., Hardware, damaged by fire, at a loss of $10,000 Insured for $2500.

Amsterdam, N. Y.—R. J. Morgan, Hardware, damaged by fire to the extent of $40,000.

Bathgate, N. D.—James Orr, Hardware, stock damaged by fire at a loss of $3000.

Dallas, Pa.— Isaac Martin's Hardware store, destroyed by fire.

Danbury, Conn.—The J. M. Ives Hardware Co.; damaged by fire to the extent of $10,000.

Grand Forks, N. D.—James Orr, Hardware, destroyed by fire. Loss $3000; partially insured.

New York, N. Y. — Daniel McCarthy, Hardware, damaged by fire at a loss of $2000.

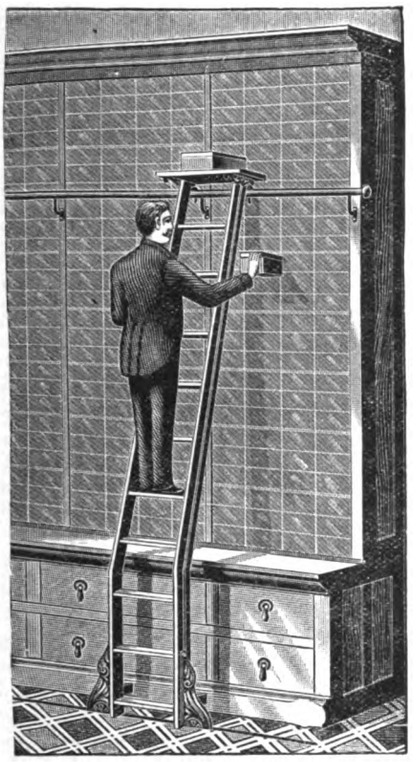
Savannah, Ga.—Charles A. Conklin & Co., Hardware, of Atlanta, destroyed by fire.

Somerset, Ky.—Girdler Bros., Hardware, destroyed by fire at a loss of $16,000. Insured for $10,700.

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The Bicycle Step Ladder

Especially adapted for Hardware Stores.



The newest, neatest, simplest, easiest operated, and safest store ladder made. Highest Award World's Fair. Write us.

The Bicycle Step Ladder Co.,
50 STATE STREET, CHICAGO, ILL.

AGENCIES:

Eastern Agents, YOUNGS & CARR, 8 Clinton Place, New York City.
New York and vicinity, E. J. HUSSEY & CO., 80 John Street, New York City.
California, JOHN WOODLOCK, 26 Beale Street, San Francisco, Cal.
Northwestern States, HOWE SCALE CO., Portland, Oregon.
Texas and Southwest, ED. FOY, Dallas, Tex.

TRY SOMETHING NEW.

The PLANET LEATHER Dust Beater.



They are made of leather, with fancy enameled handles. Will not break nor injure finest furniture or upholstery. Made in 4 lengths. Retails popular prices. Write for catalogue and price-list.

PLANET MFG. CO., Holyoke, Mass., U. S. A

WATERBURY BRASS CO.,
60 Centre St., New York.
. . Manufacturers of . .
Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS
OF ALL KINDS.

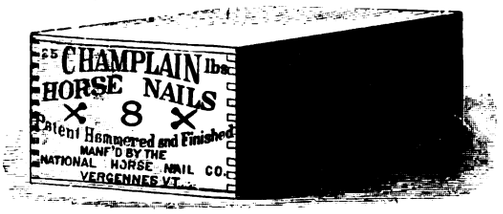
Hicks Primers, Berden Primers, Powder Flasks and Shot Pouches.

TAPE MEASURES,
EYELETS AND SMALL BRASS WARES
OF EVERY DESCRIPTION.

Send for Price and Illustrated List of

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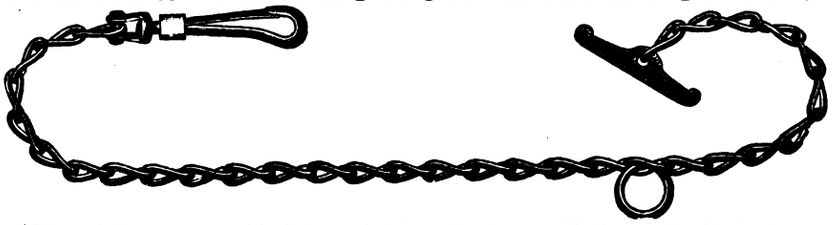
ALL SIZES.
ALL PATTERNS.
ALL WARRANTED
SOLD EVERYWHERE.



Manufactured by
National Horse Nail Co.
Vergennes, Vermont.

J. C. McCARTY & CO., Agents, NEW YORK.

THE NEW "PERFECTION" HALTER CHAINS.



These chains are not readily distinguished from the German We'ded Halter Chains, but same will be found Much Stronger, More Uniform and Lower Priced than the imported article. Send for list and discounts.

WE MAKE THE BEST SASH CHAIN—THE "MONARCH."

THE BRIDGEPORT CHAIN COMPANY, Manufacturers, BRIDGEPORT, CONN.

Kearney & Foot Co.

Manufacturers of the 100-102 Reade Street, New York.

BEST FILES AND RASPS IN THE MARKET.

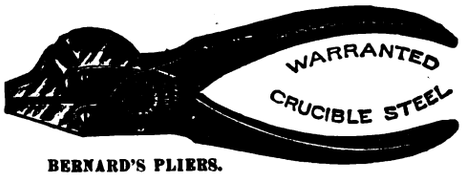
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Write for 1898 . . . Catalogue.



STAR SHEARS.

"WE MAKE the LARGEST LINE of . . . **Shears, Scissors and Pliers.**"



BERNARD'S PLIERS.

THE WM. SCHOLLHORN CO.,
NEW HAVEN, CONN.

BAKER PATENT STEEL PICKET FENCE.



AS CHEAP AS WOOD.

We want one Hardware firm in every city or county to sell this fence.

Send for Circular to

BAKER MFG. CO., Allegheny and South Aves., **Allegheny, Pa.**

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page News of new factories or companies, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Etc.

Beaumont, Tex.—Simmons Hardware & Mill Supply Co. has been incorporated by A. Tomlinson, J. B. Merritt and J. B. Simmons. Capital stock, $10,000.

Chicago, Ill.—The National Shovel Co. has been incorporated by F. A. Sanford and others. Capital stock, $100,000.

Chicago, Ill.—The Charles Mulvey Co. has been incorporated by Charles Mulvey and others; to manufacture iron. Capital stock, $10,000.

Chicago, Ill.—The Standard Pneumatic Tool Co. has been incorporated by C. A. Williams and others. Capital stock, $50,000.

Cleveland, Ohio.—Kraus Hardware Co. has been incorporated, with a capital stock of $10,000.

Cleveland, Ohio.—The Ohio Cutlery & Mfg. Co. Capital stock, $100,000.

Columbus, Ohio.—The Brackin Mfg. Co. has been incorporated by Chas. E. Brackin and others; to manufacture machine tools. Capital stock, $25,000.

Detroit, Mich. — The Detroit Valve & Washer Co. has been incorporated to manufacture valves, washers and carriage goods. Capital stock, $10,000.

Newark, N. J.—The Drummond & Latham Co., $25,000 capital stock and $5000 paid up, proposes to manufacture and sell saddlery Hardware and bicycle and electric sundries. Its incorporators are John E. Drummond, John R. Latham, William R. Latham and James J. Hogan.

Newark, N. J.—Articles of incorporation have been filed by the Essex Machine Co., with a capital of $100,000. The incorporators are: William E. Quinby, John E. Kattenstroth and Charles F. Root, of East Orange, and Francis C. Cornet, of New York City. The business will be conducted in East Orange and will be begun with $3000.

New Madrid, Mo.—The Bower Stove Co. has been incorporated by S. S. Bower and others. Capital stock, $10,000.

Portland, Me.—The American Novelty & Supply Co. has been organized, for the purpose of manufacture and sale of Hardware specialties, with $5000 capital stock, of which $25 is paid in. Officers: President, J. A. Bartlett, of Chelmsford, Mass.; treasurer, H. C. Girard, of Lowell, Mass.

Rich Hill, Mo.—J. H. Brown and J. C. Ringo will organize a company to build a factory for manufacturing harrows. Capital stock, $25,000.

Rockford, Ill.—Skandia Implement Co. has been incorporated by C. A. Stockhur, Ludwig Carlson and J. C. Jones; to manufacture agricultural implements. Capital stock, $2500.

Rockford, Ill.—Spokane Implement Co. has been incorporated by C. S. Brantingham, George H. Stanley and E.P. Lathrop; to manufacture implements. Capital stock, $12,000.

Seattle, Wash.—Schwabacher Hardware Co. Capital, $200,000.

St. Louis, Mo.—The Lampel Land & Implement Co. has been incorporated by Caroline Lampel, J. W. Tinker, George Tinker and others. Capital stock, $30,000.

St. Louis, Mo.—The Western Cartridge Co. Capital, $100,000. Corporators: Franklin W. Olin, of St. Louis; Clarence F. McMurray, of Troy, and E. G. Maturin, of East Orange.

St. Louis, Mo.—The Farnham Mfg. Co. has been incorporated by B. F. Wyler and others; to manufacture cutlery. Capital stock, $100,000.

Changes and Improvements.

Adrian, Mich.—The Lamb Wire Fence Co. has increased its capital stock from $50,000 to $100,000.

Bellefonte, Pa.—The Standard Scale Co. will enlarge its plant to double its present capacity.

Milwaukee, Wis.—The Western Hardware & Mfg. Co., now located at No. 66 Third Street, will erect a new and larger plant in the Chase and Hackett subdivision in the Seventeenth ward, on the line of the St. Paul road.

New York, N. Y.—Greene, Tweed & Co., Hardware and mill supplies, J. Ashton Greene retires.

Northeast, Del.—The Stevenson wrench factory has been sold to Samuel T. Simpers for $1212.

Paducah, Ky.—The Bittendorff Axle Co., of Davenport, Iowa, contemplate the removal of its factory to Paducah.

Providence. R. I.—The Nelson Improved Seamless Filled Wire Co. has changed name to the Improved Seamless Wire Co.

Quincy, Ill.—Excelsior Stove & Repair Mfg. Co. has certified to a change of name to the Excelsior Stove & Mfg. Co.; also to an increase in capital stock from $21,000 to $60,000.

Sterling, Ill.—Dillon-Griswold Wire Co., certified to an increase in capital stock from $150,000 to $300,000.

Waltham, Mass.— The Waltham Screw Co., plant will be enlarged.

Miscellaneous.

Cincinnati, Ohio.—The annual meeting of the Davis & Egan Machine Tool Co. has been held. The old board of directors was re-elected as follows: Charles Davis, Robert Laidlaw, Thomas P. Egan, W. H. Burtner and B. B. Quillan. The board organized by putting in the same officers, including Charles Davis, president; W. H. Burtner, vice-president and treasurer, and B. B. Quillan, secretary and general manager. The report of the business was a most encouraging one. It showed that there were 800 men employed, and that the concern was sold ahead to June. An inspection trip was made around the factory, and the entire board, with some of the leading stockholders, went over to look at the site of the new and additional plant in Covington. This will be put in shape as rapidly as possible, when 1100 men will be employed in all by the company. A regular quarterly dividend of twelve per cent. was declared.

Detroit, Mich.—Last year's business was the largest in the history of the Detroit Stove Co. William Tefft Barbour has been elected president; W. G. Henry, vice-president; G. Bert Gunderson, secretary-treasurer; Lafayette Crowley, superintendent, and the above with E. T. Barbour and M. B. Mills the board of directors.

Everett, Wash.—The Everett Wire Nail & Steel Co. has resumed operations. It has a quantity of wire on hand and large shipments are on the way from the East. The company employs about seventy-five men. It has a keg factory in connection.

Harrisburg, Pa.—The McCormick Harvesting Machine Co. is making arrangements for the erection of a large building on Market Street, near the Philadelphia & Reading freight depot. The building will be 125 feet long by sixty-two feet wide and four stories high. It will be used for the storing of agricultural implements.

Marion, Ohio.—The Marion Tool Co. has sold out to the Delaware Fence Co., and the two concerns will be merged into one, with the plant at Marion.

Portland, Ore.—A recently patented plow has been received by the Pierce Farming Co. at the company's Umatilla reservation farm. The machine is what is known as a disc plow, and tears into the soil with a sharp revolving disc. It will penetrate to any desired depth up to twelve inches, and is said to draw easier and do much better and quicker work than the ordinary plow. It is a recent Californian invention. The plows are manufactured in different sizes, the Pierce plow being of the largest class manufactured, requiring eight horses. It cost $175.

Quincy, Mich.—The Livingston Mfg. Co. have commenced the manufacture of their patent stovepipe holders.

Raynham, Mass.—The business prospect here is bright. The Diamond Tack Co. and the Raynham Tack Co. are busy with orders.

Reading, Pa.—At the annual meeting of the stockholders of the Reading Stove Works, Orr, Painter & Co., held at the offices of the company, on Canal Street below Chestnut, the following board of directors was elected for the ensuing year: Elijah Bull, Enoch T. Painter, William H. Schick, Charles S. Prizer, Robert P. Schick, Jesse Posey and Grant Nagle. The board organized by the election of the following officers: President, Charles S. Prizer; treasurer, Elijah Bull; secretary, Robert P. Schick.

Recent Fires.

Bristol, Conn.—The hardening shop of the Bristol Saw Co. was destroyed by fire a short time ago, entailing a loss of about $1500; insured for $1000. The fire was caused by a pan of oil which was being heated over a furnace.

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THE BANNER

OIL HEATERS

Will take the chill off a room in a few minutes.



No Smoke, No Odor, or Chimney.

The same this year as in previous years.

A perfect success then, and a perfect success now.

2 feet 3 inches high.

Why Handle Imitations when the Genuine can be had and pay the Biggest Profit?

MADE BY

New York. Boston. Chicago. **Plume & Atwood Mfg. Co.,** FACTORIES. Waterbury and Thomaston, Conn.

Sargent's Steel Squares.

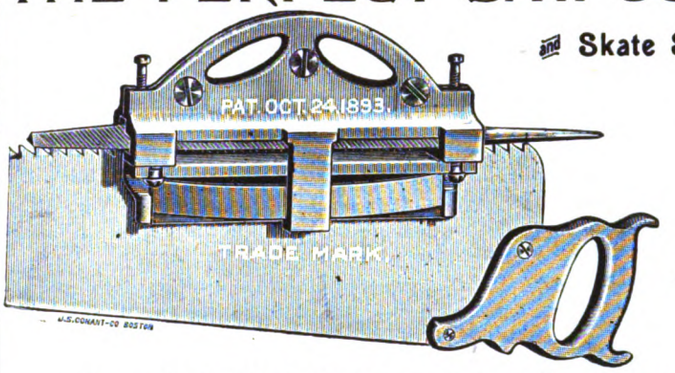
"The most complete and decidedly the most convenient Square for the operative workman in the market." That is what is said of Sargent's Squares in the well-known book, the "Steel Square and Its Uses." Sargent's Steel Squares are made of the best double-refined spring steel. The genuine are stamped thus: SARGENT & CO. NEW HAVEN CT. and are fully warranted.

Sargent & Co.,

New Haven, Conn. New York. Philadelphia. Boston.

THE PERFECT SAW JOINTER

and Skate Sharpener.



Adjustable to any thickness of blade . .

Uses any common file.

Write for prices.

The only Practical Jointer and Skate Sharpener on the market.

THE PIKE MFG. CO., Sole Agents, **PIKE STATION, N. H.**

"Copperized" c. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

MANUFACTURERS OF

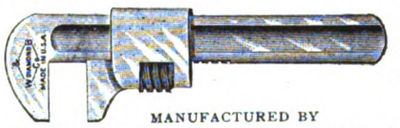
Hot and Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

"Diamond" Bicycle Wrench.

Length over all - - 5½ in.
Opening bet. Jaws 1⅜ in.
Weight - - - - 6 ozs.



This wrench is Drop Forged from a good quality of steel, Nickel Plated, Hardened Jaws and is very quick acting.

Secure our prices. . .

MANUFACTURED BY

THE WHITMAN & BARNES MANUFACTURING CO.,

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ESTABLISHED 1845

DUNBAR BROTHERS

MANUFACTURERS OF

STEEL (OIL TEMPERED) SPRINGS

ALL KINDS OF SMALL SPRINGS MADE FROM SHEET STEEL & STEEL & BRASS WIRE.

BRISTOL, CONN. P.O. BOX 416

Geo. P. Marks & Co.,

HARDWARE MANUFACTURERS' AGENTS.

Representing Leading Manufacturers.

(Accounts Solicited.)

304 Magazine St., New Orleans, La.

JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE.** **MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

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"Has Our Esteemed Favor."

Edward Darby & Sons, Philadelphia, Pa. [*Wire Goods*]: For the past few years we have been in HARDWARE, and we beg to remind you that it has our esteemed favor, and will recommend the same to anyone desirous of a good, useful, common-sense trade journal such as HARDWARE is.

HAGAN'S

TRADE MARK.



BULL DOG

LEATHER.

Bull Dog Lace Leather the best on earth. . .

JOHN C. HAGAN & CO.,

Manchester, Virginia, U. S. A.

GEO. F. TAYLOR'S SONS,

80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

ALSO

BONE BLACK

For Tempering, Coloring and Filtering Purposes.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Bridgeport, Conn.—The Bridgeport Novelty Co. has been organized with a capital stock of $1000. The concern will deal in novelties and bicycle supplies.

Chicago, Ill. — Co-operative Bicycle & Watch Co. has been incorporated by W. R. Burch, Robert McQuaid and A. J. Harvey; to manufacture bicycles and watches. Capital stock, $2600.

Chicago, Ill.—Gasoline Motor Cycle Co. has been incorporated by Thomas F. Sheridan, Thomas B. McGregor and Thomas A. Banning; to manufacture engines, etc. Capital stock, $2500.

New York, N. Y.—The Equitable Cycle Co. Capital stock, $5000. Directors: Eugene H. Levy, Jr., P. H. Earle and Deronda Levy, New York City.

New York, N. Y.—The Nonpareil Cycle Co. Capital stock, $5000. Directors: William Frahm, E. L. Marks and Joseph J. Moen, New York City.

Rock Hill, S. C.—Poag & White have opened their bicycle emporium. They will rent and sell and repair wheels of all kinds, but they make a specialty of the Rambler.

Changes and Removals.

Beaumont, Tex.—Joseph Simmons has withdrawn from the firm of E L. Wilson Hardware Co., and has opened up store for himself, under the style of Simmons Hardware & Mill Supply Co., handling Hardware, sporting goods, bicycle sundries, etc.

Chicago, Ill.—The America Cycle Mfg. Co., entire assets have been purchased by the David Bradley Mfg. Co. They will continue to manufacture American and Hussar bicycles.

Chicago, Ill.—The Firestone Victor Rubber Co., certified to change of name to the Firestone Rubber Tire Co.

Chicago, Ill.—The Standard Cycle Works, entire plant has been purchased by the Fanning Cycle Co., Nos. 194 to 200 South Clinton Street. The additional machinery thus secured increases the company's capacity to 125 wheels per day.

Cortland, N. Y.—Cortland Wrench Co., manufacturers, reported to have dissolved partnership.

Delanco, N. J.—F. H. Smith & Son have sold their bicycle business to H. J. Wells.

Griffin, Ga.—H. C. Burr's Sons will erect a bicycle repair shop.

Knoxville, Tenn.—Biddle Mfg. Co., bicycles, succeeded by the Biddle Cycle Co.

Kokomo, Ind.—J. A. Hutchings, bicycles, sporting goods, etc., is enlarging his storeroom.

Meriden, Conn.—A. D. Meeks has taken the store on Church Street adjoining the one now occupied by him to make additional room for his bicycle business. His old store will be devoted to the repair department and the new store to show goods.

Montreal, Can.—A. H. Campbell & Co., bicycles, etc., about dissolving

Morristown, N. J.—A. S. Pierson & Co. have closed out their bicycle business formerly carried on on Washington Street.

Muncie, Ind.—The Muncie Wheel Co. will erect a three-story addition to their factory.

Murfreesboro, Tenn.—J. J. Edwards, bicycles, succeeded by Brooks & Edwards.

Newport News, Va.—The Newport News Cycle Co., Mr. Kipper, manager, have enlarged their store.

New York, N. Y.—The New York Bicycle Tire Repair Shop of Morgan & Wright, Chicago, has been transferred from No. 107 Chambers Street to No. 125 White Street.

Poughkeepsie, N. Y.—Bauer & Winans, bicycles, succeeded by Henry Bauer.

Seymour, Ind.—Times Mfg. Co., bicycles, rented plant to Nelson M. Carlson.

Shelbyville, Ind.—The Arrow Cycle Mfg. Co. has been succeeded by Christian Schrader.

Washington, D. C.—Washington Cycle Supply Co., wholesale bicycle sundries, opened store at No. 1015 Fourteenth Street, N.W.

Recent Embarrassments.

Boston, Mass.—The Very Cycle Mfg. Co. has made an assignment to George R. Nutter, and Frederick A. Very, of Springfield, one of the partners, has filed a voluntary petition in insolvency. The liabilities of the firm are $42,866, and Mr. Very's personal liabilities are $8500.

Rochester, N. Y.—Elastic Wheel Co., reported to have made an assignment.

Springfield, Mass.—The stockholders of the Warwick Cycle Co., at a special meeting, voted unanimously to go into voluntary insolvency. Liabilities, $225,000; assets, $425,000

Recent Fires.

Brantford, Ont.—Elz. Cooper's bicycle repair shop completely destroyed by fire. Loss, $500.

New York, N. Y.—The Herald Bicycle Co., No. 28 Park Row, damaged by fire at a loss of $5000.

Pittsfield, Mass.—W. J. Davoll, bicycle repairer, damaged by fire at a loss of $200; insured for $200.

Saginaw, Mich.—Fischer Bros., manufacturers of bicycles, damaged by fire at a loss of $2500; insured for $2000.

Miscellaneous.

Torrington, Conn.—C. S. Dikeman, manager of the Eagle Bicycle Co., has been elected president of the Cycle Manufacturers' board of trade.

Wallingford, Conn.—Business is picking up at the Wheel & Cycle Bar Co.'s works. The factory is now on a ten-hour schedule. From fifteen to twenty additional hands have been engaged. This company has recently gotten out a new wheel, and orders for it are coming in fast.

Great Change.

"There has been a great change in the prices of Hardware in my time," said a man who, when just entering into business life, served an apprenticeship in a little Hardware store in this city. "Here I am buying wire mosquito netting for a fraction of a cent a square foot, and when I was behind the counter the price was twelve cents a square foot. Of course, the wire was stronger and better then, because unlike this stuff, it did not merely shut out the gallinippers, but was close enough to exclude the smallest skeeter, and at the worst it lasted three years. The price is the thing I started to speak about, however, and not the quality. Oh, that was such a convenient price for figuring on. My bosses were so stuck on it that they lost the whole wire cloth business rather than change it. In fact, I knew them to sell wire which cost them thirteen and a half cents for twelve cents a square foot rather than take the trouble of figuring fractions. They were not strong on mathematics, and I never liked figures myself. You see it is so easy to figure on twelve cents a square foot. It was always just so many cents a running foot as the cloth was wide and it made it so easy calculating that the bosses hated to fall, while their competitors dropped to eleven, ten, nine and eight cents. By that time all their trade for wire cloth was gone. They tried again when it got down to six cents, because figuring was again easy, but they never got their trade back."

The following railroad statistics for the United States are taken from official figures: At the close of 1896 there were 1687 miles of track laid, which raised the total mileage to 182,600 miles, less than 5000 miles of which were out of operation. The year's earnings amounted to $1,125,500,000, and of this sum $770,000,000 represents freight traffic.

The great hammer of the Woolwich Gun Works of England weighs forty tons and has a drop of forty-four feet.

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"EVERYTHING IS COMING UP."

BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

Sheep Skin Mitten.



Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

Diamond Hardware Co.,

624 Atlantic Ave., Boston, Mass.

STERLING BELLS.



One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.

DOUBLE STROKE A.1.



DUNBAR BROS.
BRISTOL, CONN.

The DANDY SINK CLEANER.

. . . A perfect and complete



Household Specialty.

A Sink Cleaner and Shovel Combined. . .

Tidy housekeepers will throw away the dirty sink broom and buy the **Dandy Sink Cleaner** on Sight. . . . . .

TRY IT AND BE CONVINCED.

For sale by all Wholesale Hardware Dealers, and by the patentee and manufacturer,

John W. Sudlow, 986 HALSEY STREET, BROOKLYN, N. Y.

CORBIN BELLS
THE BEST
TRADE MARK
BRISTOL BELL CO.
BRISTOL, CONN., U.S.A.

Howard Iron Works,

BUFFALO, N. Y.

Manufacturers of

Bench Vises.

Price Lists sent on application.

THE E. S STILES PRESS CO.,

Successo s to
The Stiles & Fladd Press Co.,
WATERTOWN,
N. Y.

E. S. STILES,
Treas & Gen. Mgr.

PRESSES,
DIES,
DROP HAMMERS,
POWER SHEARS
AND
SPECIAL MACHINERY.



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ESTABLISHED 1882.

PARISH & UNGER,

MANUFACTURERS

Empress Lamp Chimneys.

NONE BETTER MADE.



NONE BETTER MADE.

This Trade-mark is Etched on each Chimney.
Each Chimney is Papered.
In Packages and in Open Stock.

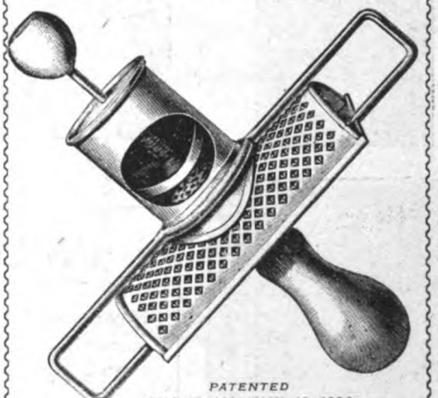
Haida.	Student.
Rochester.	B. & H.
Sun Straight.	Duplex.
Sun Bulb Plain Top.	Belgian.
Sun Bulb Crimp Top.	Princess.
Sun Hinge.	Little Jewel.
Leader.	Gem.
Pinafore.	Welsbach Gas.
Lip.	Globe Incandescent.
Nutmeg.	Pittsburg.
Electric.	Royal.

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53 & 55 WARREN STREET,
NEW YORK.

WRITE FOR PRICES.

THE NEW 1896

Edgar Nutmeg Grater.



PATENTED
AUG. 18, 1891, NOV. 10, 1896

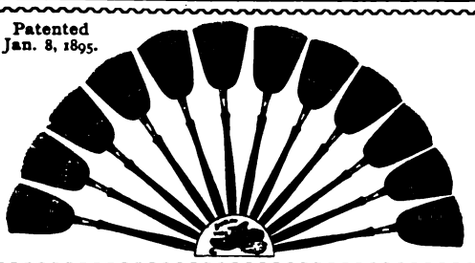
The ONLY good Nutmeg Grater ever made.

Ask your jobber for it, or send to us for sample.

EDGAR MFG. CO.,

READING, MASS.

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THE WIRE FLY KILLER. UNIVERSALLY USED ALL OVER THE WORLD.

Unsurpassed in houses, Stores, etc. Does not crush the fly. Does not soil the most delicate wall paper or ceiling.

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J. F. BIGELOW, *PATENTEE AND MANUFACTURER,*

19 FOSTER STREET, WORCESTER, NASS.

THE VERY LATEST--THE VERY BEST

"Eclipse Cleanable"

THE NEW REFRIGERATOR.

The only Removable Tank Refrigerator having a positive circulation of dry air by means of removable flues. Has a larger ice capacity than other Refrigerators. This saves ice and makes your customers happy.

◉

Built with plain or ornamental cases.

◉

HANDSOME AND DURABLE.

Our Catalogue Will Interest You.



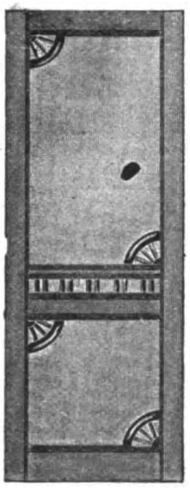
Eclipse Refrigerator Works, Burlington, Vt.

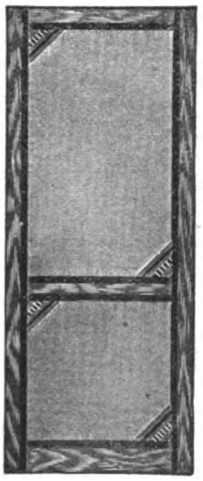
One of the First and Last Advertisers.

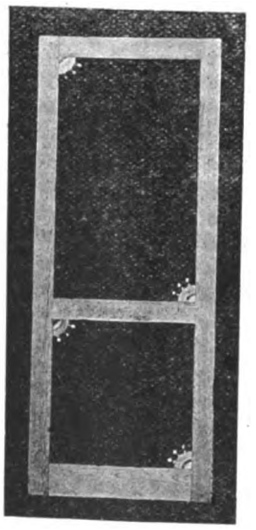
New Jersey Car Spring & Rubber Co., Jersey City, N. J. [*Rubber Goods*]: This company was one of the first to enter your list of advertisers, and we expect to be among the last to retire. We feel that HARDWARE is one of the publications we can't afford to stay out of.

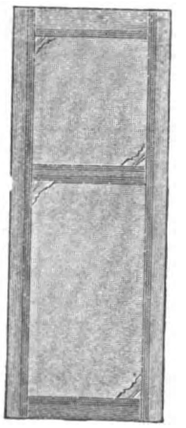
PROGRESSIVE AND ENTERPRISING.

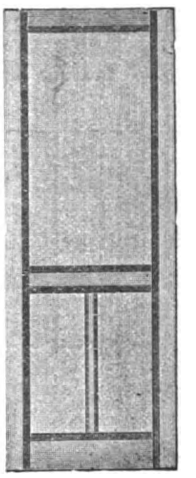
Holmes & Edwards Silver Co., Bridgeport, Conn. [*Silverware*]: We recognize in HARDWARE a magazine progressive and enterprising.



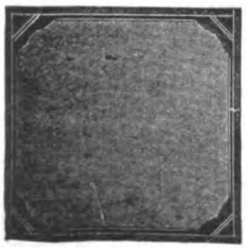












PHILLIPS' SCREEN GOODS

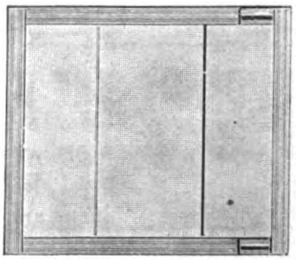
Have won for themselves the confidence and respect of the best posted buyers.

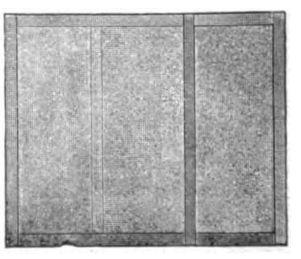
Where quality is considered as well as price, these goods are apt to have the preference. They are not rough. They are not "hustled," nor are they "degenerated" from other people's patterns.

What is a cent on a Window Screen or two cents on a Screen Door, when you consider that you wish to sell them again at a profit? Poor goods always have to be sold cheap! Of course, all manufacturers claim their goods are A1. But—what is your experience?

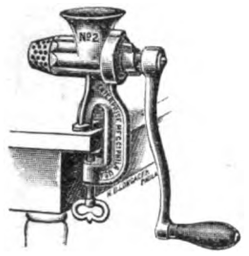
If your jobber will not sell you genuine Phillips goods, you can get them of the manufacturer.

THE A. J. PHILLIPS CO., Fenton, Mich.

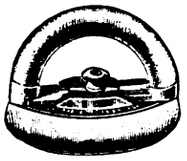




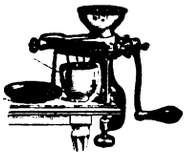
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New Chopper



Polishing Iron



Meat Juice Extractor

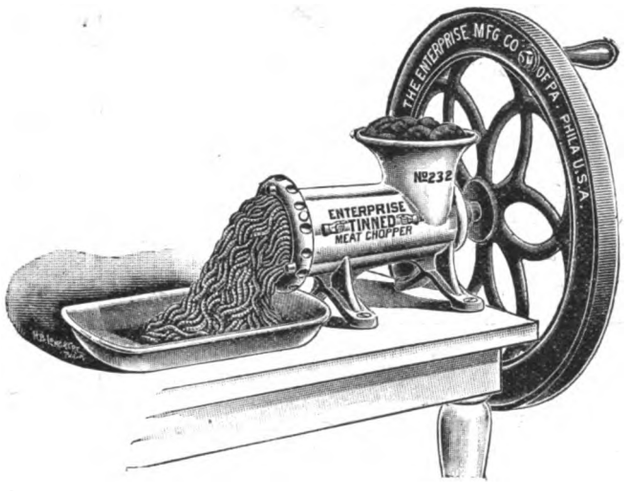


No. 5 Chopper

ENTERPRISE

Meat and Food Chopper

with Fly Wheel





Cherry Stoner



Raisin Seeder



Fruit Press



Beef Shaver



Ice Shredder



Self-Priming and Measuring Pump



Coffee Mills for Family and Grocer



Bone Mill



Tobacco Cutter



Bung-Hole Borer

TINNED

No. 222, $6.50 **No. 232, $9.50**

No. 242, $20.00

Correspond in size with our Nos. 22, 32 and 42, respectively

Consult your Jobber **Descriptive Catalogue Free**

The Enterprise Mfg. Co. of Pa.

Philadelphia, Pa., U. S. A.

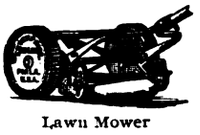
Branch Office, J. C. McCARTY & CO., 10 Warren St., New York



No. 12 Chopper



Lawn Sprinkler



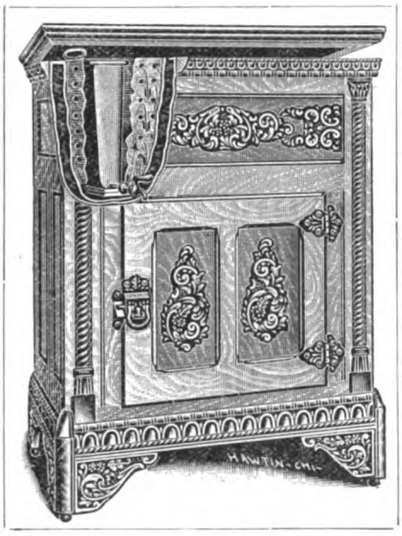
Lawn Mower



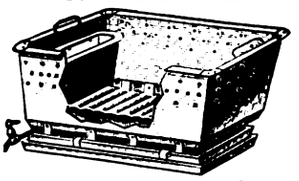
New Power Chopper

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Buy the Gurney Patent Refrigerator. It costs no more than imitations claimed to be "*Made like the Gurney.*"

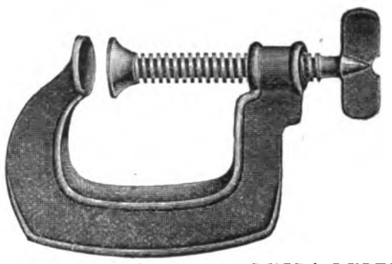
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Also Mfrs. of La Belle and Imperial Refrigerators. Capacity 150 Refrigerators per day.

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Boston, J. Theo. Gurney, 1074 Boylston St.

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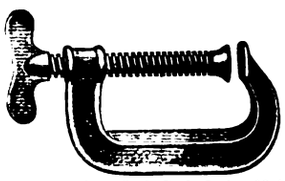


EXTRA HEAVY. EXTRA DEPTH.

To open 3½, 4½, 5½, 6½ 8½ inches.

Depth bet. Screw and Frame, ¾ 3, 3½, 4, 4½ in

EAGLE SCREW CLAMPS.



To open 2, 2½, 3, 4, 5, 6, 7, 8, 9, 10, 12 inches.

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MOUNT CARMEL OX SHOES.

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My Specialty is to Manufacture for Other Parties.

Reasonable arrangements can be made. WRITE ME TO-DAY.

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As light as wood and much stronger. The only Steel Block where the straps extend down below the middle and the pin passes through them, and has edges and middles rounded to protect the rope. When bushed with Ford's Patent Self-Lubricating or Adjustable Five-Roller Bearing Sheaves they lead all others for cheapness and durability. To insure the best blocks always specify STAR BRAND. 1897 Complete Catalogue J now in preparation. . . . .

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A FIRST-CLASS 3-4 inch, 3 ply **RUBBER HOSE,** wound with heavy steel wire, complete with brass couplings and bands.

INVINCIBLE

I FULLY WARRANT this Hose for the Season of 1898, and will replace any proving defective. . . .

6 1-2 CENTS PER FOOT.

I will be pleased to have you favor me with an order for a sample length and have you give it a thorough trial, before you place your order for this season's hose. I have also . .

Ten Other Grades of Rubber and Cotton Hose.

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"Advance" line Blacksmith's DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's OLD LINE Hand Drills.

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Cut Gears, Lever Feed, 19 inch Swing.

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The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

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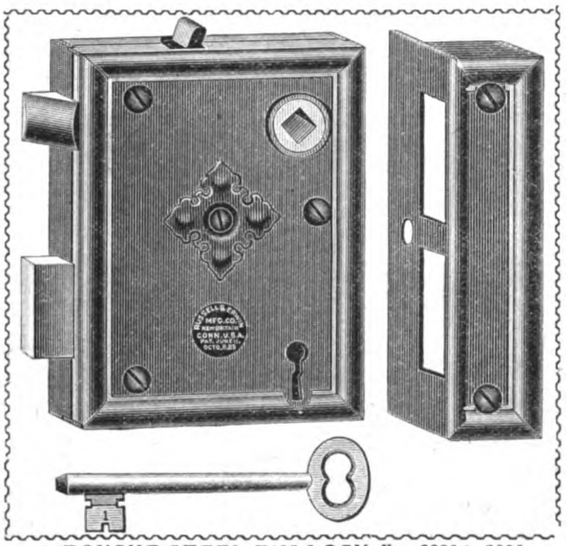
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MANUFACTURERS OF

HARDWARE.

WROUGHT STEEL DOOR LOCKS. COLUMBIA CYLINDER DOOR LOCKS.

Wrought Steel Mortise Locks Excelling in Lightness and Strength and Novelty of Finish.



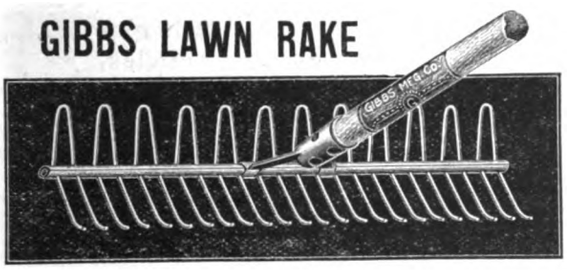
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Wrought Steel Rim Locks, Excelling in Lightness and Strength and Novelty of Finish.

RUSSELL & ERWIN MANUFACTURING COMPANY,

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The Strongest, Lightest and Finest Looking ALL STEEL Rake ever produced. . . . .

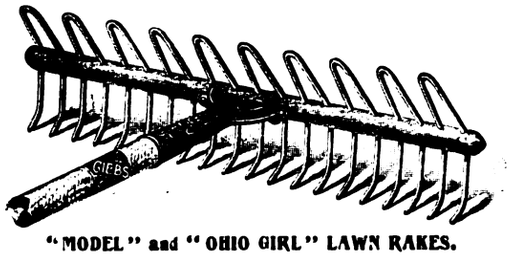
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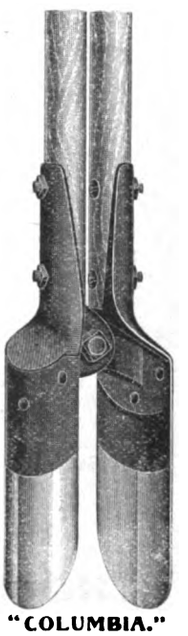
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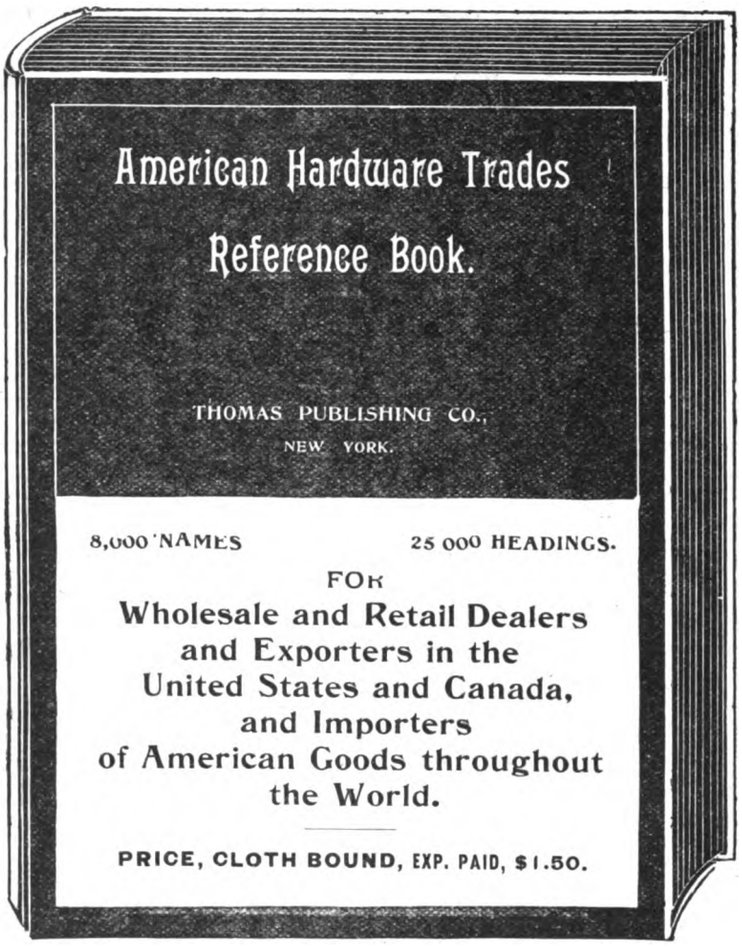
Hardware of All Kinds,

Hardware Specialties,

Agricultural Implements and Machinery of Every Description,

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Stoves, Ranges,



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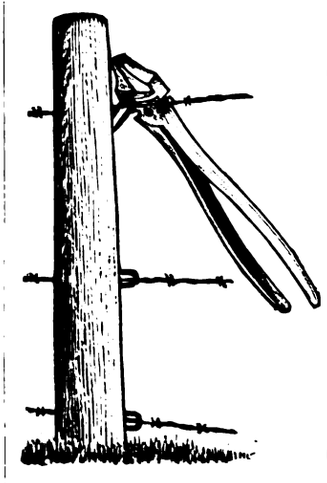
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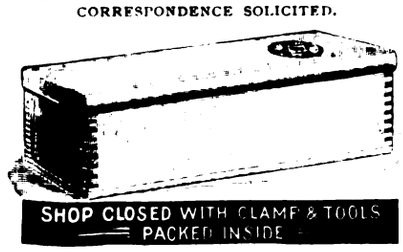
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Is a complete Harness Repair Equipment. The tools and supplies are of standard quality, the seat is a varnished chest (18x8x5) and contains the outfit when not in use. SO SUBSTANTIAL as to last a lifetime. SO PRACTICAL as to be an ECONOMIC NECESSITY to horse owners! Your customers want 'em! Jobbers sell 'em!

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CORRESPONDENCE SOLICITED.



SHOP CLOSED WITH CLAMP & TOOLS PACKED INSIDE

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Plymouth Rock Half Soles

NOT THE FLIMSY KIND,

but reliable taps for a little money.

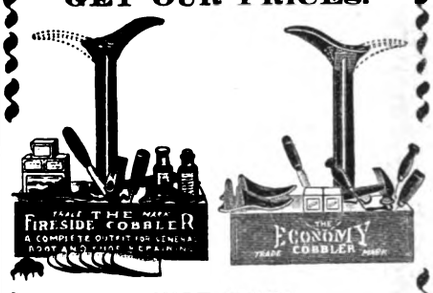
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THE ROOT BROS. CO.,
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Root's Cobblers' Sets.

The Best Selling and Most Popular Goods Made. . .

GET OUR PRICES.



JUST OUT!

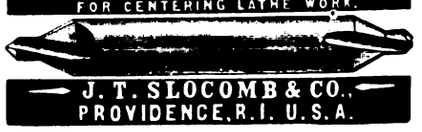
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Originators and Sole Manufacturers.

COMBINED DRILL AND COUNTERSINK FOR CENTERING LATHE WORK.



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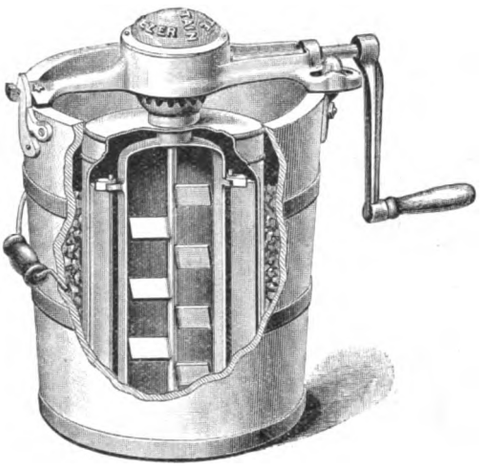
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PERTAINING TO

Ice Cream Freezers

Originated with and is used in

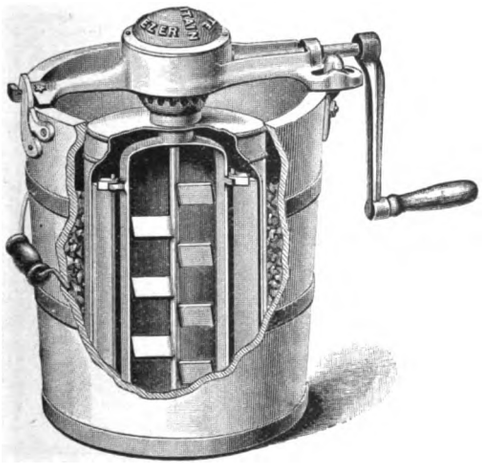
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The Standard Freezer of the World.

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IT EXCELS ALL OTHERS.



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Easy to Sell.

Customers All Satisfied.

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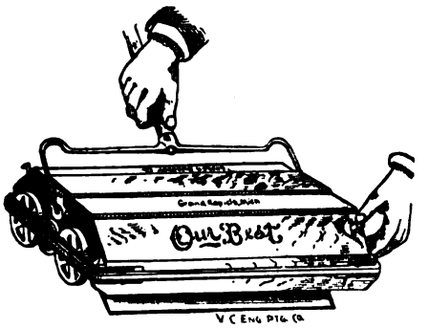
SUBSTANTIAL REDUCTION IN PRICES

—OF—

GOSHEN SWEEPER CO.'S

Full Line of

High-Grade-Sweepers.



Sole Manufacturers of the . . . .

CELEBRATED CAM ACTION.

. . . . Also a full line of

Broom Action Sweepers.

Every Sweeper bearing the name **GOSHEN** Guaranteed. Write us for new prices before placing your order elsewhere.

GOSHEN SWEEPER CO.,

GRAND RAPIDS, MICH.

The BURDICK CYCLOMETER.



Weight 1 Ounce.

10,000 Miles and Repeat.

New Principle. Reliable. Best.

Dust Proof. Water Proof.

1898 GOODS.

MILLER'S A1 LAMP.
EVERLIT LAMP.
ROYAL BELLS.

EDWARD MILLER & CO.,

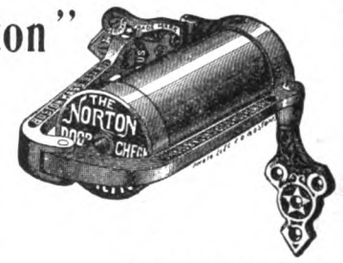
Factories and General Office,

. . . MERIDEN, CONN. . . .

STORES:

63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.

THE "Norton"



An Air Check.

A Good Seller.

DOOR-CHECK and Spring.

WRITE FOR PRICES.

Address 505 SEARS BUILDING, BOSTON, MASS.

To Bicycle Riders.

WE MAKE OUR TUBE OF FIFTY CARBON STEEL

Because a Tube like this of our

.50% CARBON STEEL

Is just as strong as a Tube like this of

.25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted] and TWENTY-FIVE CARBON Steel will last only so long [redacted]

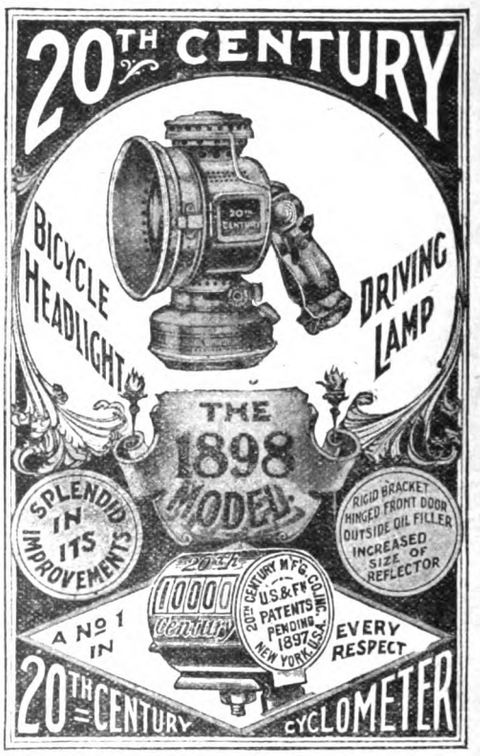
NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory corroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.



For Sale by All Jobbers 20th Century Mfg. Co., 17 Warren St., N. Y.

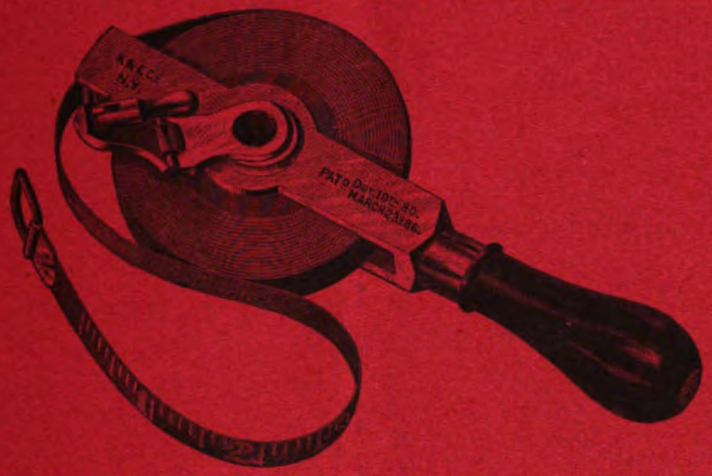
"GREAT VALUE AS AN ADVERTISING MEDIUM."

Buck Bros., Millbury, Mass. [*Tools*]: We appreciate the great value of your paper as an advertising medium.

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HIGH GRADE MEASURING TAPES,

MADE IN AMERICA.



KEUFFEL & ESSER CO., NEW YORK,

127 FULTON ST.

MANUFACTURERS OF

STEEL, METALLIC AND LINEN TAPES.

POCKET TAPES, STEEL RULES, &c.



FACTORIES AT HOBOKEN, N. J.



HIGHEST GRADE AND QUALITY, SUPERIOR TO ALL OTHER MAKES, DOMESTIC OR IMPORTED.

SEND FOR CATALOGUE OF 1898, JUST ISSUED.





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MORRILL'S

Saw Sets, Bench Stops, Punches, Cutting Pliers, and Seal Presses.

REGISTERED U. S. PATENT No. 30572.

TRADE CM MARK

REGISTERED U. S. PATENT No. 30572.

This Trade Mark is stamped on all Saw Sets and other Hardware Specialties of my make.

MORRILL'S No. 1 IMPROVED.

Known as the New No. 1 Saw Set.



For Hand, Band and Jig Saws, from the widest made down to ½ inch. The Sets are too well known for me to enlarge on them.

MORRILL'S UNIVERSAL PUNCH



Seven and a quarter inches in length. An indispensable office tool. Powerful, simple, convenient, durable. Thousands now in use, with the highest satisfaction, in every branch of business.

MORRILL'S No. 5 SAW SET.



15 Inches in Length.

For Timber and Board Saws, from 6 to 14 gauge. The size of the saw in circumference makes no difference.

These sets are made strong, accurate and durable.

Saw teeth should never be twisted, but set at right angles to their points.

MORRILL'S MASTER-PIECE, No. 95.



The revolving anvil with indicator sub-divided and marked with figures, the figures showing the number of teeth to the inch in the saw to be set; for example, if the saw has four teeth to the inch, turn the anvil until the figure 4 comes up directly in front of the plunger, and so on.

MORRILL'S No. 11 SAW SET.



A Superior Hand Saw Set perfect in its construction and unerring in its operation; will set any hand-saw from 1-16 inch thick down to the thinnest made, and from the coarsest to the finest in general use.

MORRILL'S PERFECTED BENCH STOP.

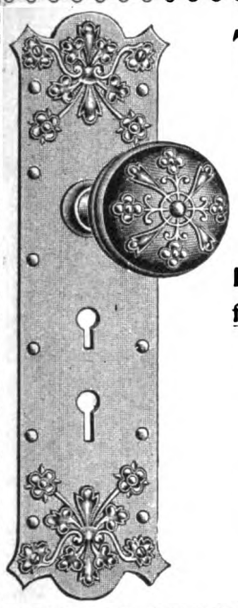


No wood worker can afford to do without a reliable Bench Stop or hook, as it is sometimes called. The end that the screw is in should always be towards the operator. The spindle and working plate is of WROUGHT STEEL. The body is of malleable iron, rendering it the most durable and useful Bench Stop ever put on the market.

Write for Catalogue and obtain a complete list of specialties from which the few cuts above have been chosen.

CHARLES MORRILL, 35 Warren St., New York.

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Trilby Design

(Wrought Bronze)

In Old Copper finish is a favorite for

Front, Vestibule,

Inside, and Sliding Door

Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of **Builders' Hardware,**

Factory and General Offices,

SOUTH NORWALK, CONN.

SALESROOMS:

NEW YORK, 80 Chambers St., or
94 Chambers St., (UNDERHILL, CLINCH & CO.)
BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
CHICAGO, 36 Dearborn St.
BALTIMORE, 32 Hopkins Place. (HENRY KEIDEL & CO.)
PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

The Mutual Life Insurance Company

OF NEW YORK,

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

ROBERT A. GRANNISS, Vice-President.

WALTER R. GILLETTE, - - General Manager,
ISAAC F. LLOYD, - - - 2d Vice President,
FREDERIC CROMWELL, - - - Treasurer,
EMORY McCLINTOCK, - - - - Actuary,
WILLIAM J. EASTON, - - - - Secretary.

THE APOLLO IS A CRACKER JACK

Finest Material, Workmanship and Finish. . . . . .

ALL THE UP-TO-DATE FEATURES.

List, $60.00

The Vesper, $40.00

FAUBER HANGER, FLUSH JOINTS.

JUVENILES AND SUNDRIES.

* * *

E. K. TRYON, JR., & CO.,

PHILADELPHIA.

Send for Catalogue - and - Mention "Hardware."

Bissell . . Carpet Sweepers

FOR 1898.

"Cyco" Bearings and Dust Proof Axle Tubes

Will be the prevailing features, with others of equal value to be announced later on.

ADVERTISING HELPS

Furnished Gratis.

Bissell Carpet Sweeper Co.,

103 Chambers St., New York.

GRAND RAPIDS, MICH.

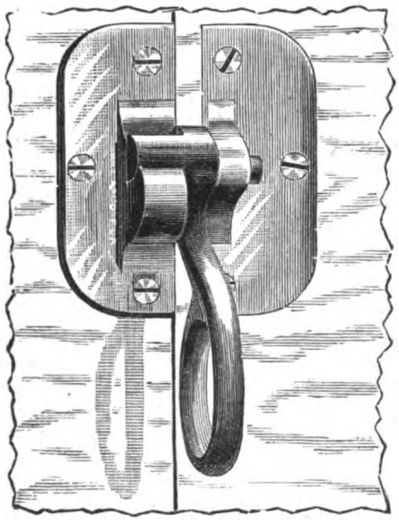
LONDON. - PARIS. - HAMBURG.

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The CONROY PATENT

Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

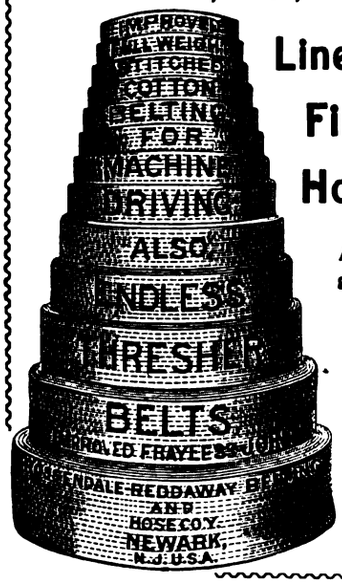
P. J. CONROY,

Beware of Infringements. Paschall, Phila.

THE

ROSSENDALE - REDDAWAY BELTING & HOSE CO.,

Newark, N. J., U. S. A.



Linen Fire Hose

All grades.

Made to meet requirements of Underwriters.

Benefits Greater Than Ever Before.

Nicholson File Co., Providence, R. I., [*Files*]: We are pleased to state that the results thus far obtained from our advertisement in the columns of *Hardware* fully justify our having resumed our contract with you. We feel that the benefits which we are securing from your paper are **greater than ever before.**

FIT FOR THE TABLE OF A KING OR QUEEN.

THE

ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

SEND FOR CATALOGUE.

Factories:
HARTFORD, CONN.
NORWICH, CONN.
WALLINGFORD, CONN.
TAUNTON, MASS.

WM. ROGERS MFG. CO.,

Salesrooms:
HARTFORD, CONN.

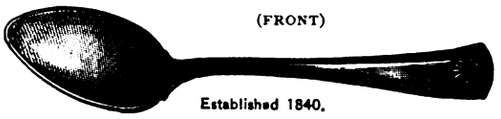
Highest Grade of

Silver Plated Ware

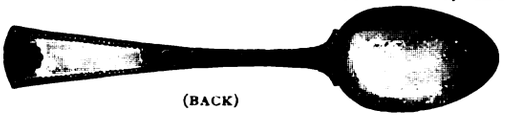
In Spoons, Forks, Etc.

Manufactured by

L. BOARDMAN & SON, East Haddam, Conn.



Established 1840.



Also Nickel Silver Flat Table Ware and Britannia Spoons.

Write for Catalogue and Prices.

AGENCY **JOSEPH RODGERS & SONS, LTD.**

THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when

THE VERY BEST

can be had at a small advance over poorer QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF

JOSEPH RODGERS & SONS, LTD.,

SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS,
TABLE CUTLERY,
SCISSORS,
RAZORS,
HUNTING and BOWIE KNIVES
POCKET CUTLERY, &c.

Its Corporate Mark

Is among the oldest, and now over **200 YEARS** old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
93 Chambers Street, New York.

Established 1836.

ALFRED FIELD & CO.,

93 Chambers and 75 Reade Streets, New York.

Importers of

HARDWARE, CUTLERY, GUNS, ANVILS, CHAINS, FILES.

Sole Agents for

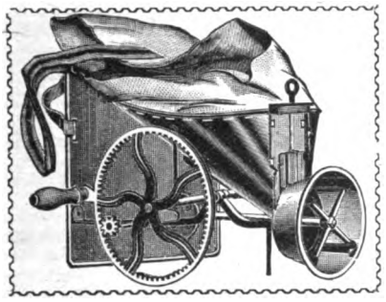
JOSEPH RODGERS & SONS, LIMITED,	BEST CUTLERY IN THE WORLD.
PEUGEOT FRERES, COATES CLIPPER MFG. CO.	HORSE AND TOILET CLIPPERS.
ELEY BROS., LIMITED,	CAPS, WADS, CARTRIDGE CASES, ETC.
L. HUGONIOT TISSOT,	FINE FRENCH PLYERS AND OTHER SMALL TOOLS.
ISAAC GREAVES,	SHEEP AND GARDEN SHEARS.
W. K. & C. PEACE,	GRASS HOOKS, SCYTHES AND STRAW KNIVES.
R. & J. LINACRE,	GRASS HOOKS, SICKLES, ETC.
WEBSTER & HORSFALL,	PIANO AND STEEL WIRE OF ALL DESCRIPTIONS.

Proprietors of the following brands of Cutlery:

ALFRED FIELD & CO., PARKER & FIELD, PROGRESS, CRITERION, BRANFORD CUTLERY CO., CONTINENTAL CUTLERY CO., WALTHAM CUTLERY CO., ALEXANDER FRAZER & CO., JONES & CO.

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Did You Ever . . .



hear it said that any other Seed Sower was better in any one respect than

Pearce's Improved Cahoon's Broad-Cast Seed Sower? . . . .

We think not. The superiority of the **"Cahoon" Sower** has been everywhere acknowledged for more than thirty years, and the time has never been when any other was "just as good" by one half. Sows all kinds of grain and cleaned grass seed better than can be done by hand, at least five times as fast and with two-thirds the quantity of seed. . . Hardware dealers can handle nothing that will bring them more money or friends.

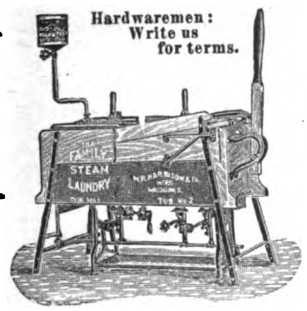
Wholesale agencies in all parts of the country, where the trade can be supplied promptly at factory prices.

MANUFACTURED ONLY BY

GOODELL COMPANY,

ANTRIM, N. H.

"The Family Steam Laundry."



WASHING MADE EASY.

Complete Portable Steam Laundry Combination

For family use. Washer, Boiler, Adjustable Stove, Attachment for Wringer, etc. **ALL IN ONE.** It will Wash, Boil, Steam, Rinse, Blue, Heat Irons, make Starch and Cook your Dinner all on the one machine, in the most Perfect manner, and Quickest Time and Least Labor, without any Wear or Tear, without Lifting Wringer, Slopping the Floor or Breaking your Back over a Washboard and Tub. Get one and be Free Forever from Washtubs, Washboards, Washboilers, Laundry Stove, Rubbing your Clothes, Sore Knuckles and Scalded Hands. Strong, Durable, Handsome and Easily Operated. Heated by natural gas, artificial gas, gasoline or oil.

W. R. HARRISON & CO.,

Office, Factory and Salesrooms, Walnut St., Massillon, Ohio.

72 YEARS. ESTABLISHED 1825. 72 YEARS

Celebrated **HEINISCH** Shears

ACKNOWLEDGED THE BEST



Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

R. HEINISCH'S SONS CO.,

New York Office, 90 Chambers Street. NEWARK N. J

TO MANUFACTURERS AND JOBBERS.

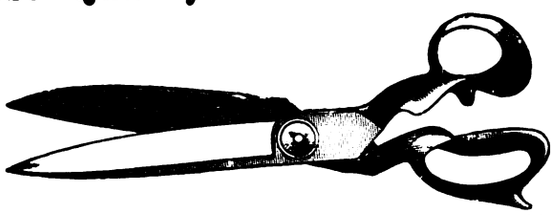
HAVING made arrangements with the publishers of the "Wholesale and Retail Hardware Directory of the United States and Canada" for the balance of their 1897 edition, we are pleased to be able to offer the same on very liberal terms. This is the current edition, and no later one will be placed on the market before the fall of 1898. The list contains 24,872 names, arranged by States, with the ratings of each firm indicated opposite the name. . . . . .

With HARDWARE, for 1 year, - $2.50

Directory, alone, - - - - 2.00

WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

YOU SHOULD HANDLE THOSE MADE BY

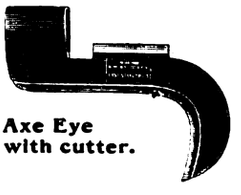
J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .

Bush Hooks



Axe Eye with cutter.

Axe Eye Strapped.
Axe Eye Plain.
Axe Eye with Cutter.
1 Ring with Cutter.
2 Ring Plain.
New Orleans Pattern.

UNDERHILL, CLINCH & CO.,

SELLING AGENTS,

No. 94 Chambers Street,

NEW YORK.

TRADE B MARK

G.W. BRADLEY'S

SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

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JOHNSTON'S LIQUID GLUE FOR ALL USES.
1 oz. bottles per gro. $5.00
2 oz. bottles per gro. $6.00
JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

RIVETS AND WIRE NAILS.

C. C. & E. P. TOWNSEND,
New Brighton, Penn.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS
BALL BEARINGS

Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

ESTABLISHED 1854.
BOXWOOD AND IVORY
RULES.
STEPHENS & CO., Riverton, Conn., U. S. A.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads, &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application


Established 1870.
SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
. . . Manufactured by
James F. Martin, 1619 to 1625 Buan St., Frankford, Phila., Pa.

Seed's Reversible Self-Cleaning . . . WATER FILTERS
BRASS, NICKEL PLATED.
No. A1 Per dozen, $4.00 No. 3 Per dozen, $1.50
No. 2 " " 2.50 No. 4 " " 1.00
In 5 Gross lots, 10 per cent. off.
J. H. SEED, Manufacturer,
21 and 23 Centre Street, - - NEW YORK.

STARR'S GRANITE CEMENT.
Repairs chipped and rusty spots in Graniteware. Stops Leaky Tinware, Copperware, Fibreware, Woodenware, Tin and Iron Roofs, Eave Spouts, &c. Sample and prices free to dealers.
P. H. STARR,
Box E, NORWALK, OHIO.

Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

TRAVELING salesman for first-class line of American pocket cutlery, on commission, in Missouri and Kansas, or Nebraska and Iowa. Address C C., care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

TRAVELING salesman, hustler, 6 years' experience with largest house in Canada. also city references. B. B., care HARDWARE, No. 143 Chambers Street, New York.

SHEET brass, copper—Any firm engaged, or wishing to engage in this line, either as manufacturers or sales agents, can secure the services of a young man who has had 12 years' practical experience in the manufacture and sale of the above and kindred metals. Is at present employed, but desires a change. Address "SHEET METAL," care HARDWARE, No. 143 Chambers Street, New York.

AN experienced business man, for some time manager of a leading maker of metal bedsteads and ornamental castings, thoroughly acquainted with all details. A1 salesman, unequalled acquaintance with leading buyers; fully qualified to represent an A1 concern; open for an engagement of a salable line. "BUCKEYE," care HARDWARE, No. 143 Chambers Street, New York.

$12 to start. Cheap but good. Wholesale or retail. Ten years' experience in wholesale Hardware and specialties in New York. Age 27. Buying, managing, bookkeeping, manufacturing. Are you looking for a capable all-round man who will increase your business? Best references. "LOCKWOOD," care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL builders' Hardware salesman, ten years' experience, desires a position in a wholesale house. Can estimate from plans and specifications. Address WOODRUFF, care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man (20) desires position. Four years' experience wholesale Hardware house; rapid figurer; of good address and business tact, knowledge stenography, typewriting and double-entry bookkeeping; best of references. Address "AMBITIOUS," care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted as buyer, assistant buyer or salesman by young man thoroughly experienced in Hardware, tools, housefurnishing and leather goods, china and glassware. Highest references. H. L. G., care HARDWARE, No. 143 Chambers Street, New York.

BOOKKEEPER.—Competent double entry bookkeeper and cashier of many years' experience, possessing energy and business abilities, is open for engagement with wholesale house or manufacturing concern. Married. Best of references as to character, etc. Address BOOKKEEPER, care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE and bicycles.—Young man of 26, four years as Hardware salesman, also about four years in bicycle business, desires position. Understands bicycle business thoroughly. References unexceptional. Address H. & B. SALESMAN, care HARDWARE, No. 143 Chambers Street, New York.

ADVERTISING man wishes to make connections at once with a reliable and financially strong manufacturing company. Is fine writer and designer of advertising matter, and knows when, how and where to place it to advantage. Can take full charge of advertising department. Address EDW. C. WIMBROUGH, No. 530 N. 13th Street, Philadelphia, Pa.

A FIRST CLASS buffer wishes a position; is a first-class worker on Hardware and all kinds of metal; bicycles preferred; union shop if possible. OTTO DIETRICH, No. 7 Comes Street, Newark, N. J.

A YOUNG man, some experience as salesman, would like to engage with a reliable firm where he could learn the business, with view of representing them in the city and nearby trade. Chance of advancement looked for more than salary. G. H. Blanchard, No. 331 West Twenty-first Street, New York.

BICYCLE repairer and builder would like position with Hardware house handling wheels. Capable to take charge of bicycle department entirely; can handle fittings. GEO. GOULD, No. 114 Freeport Street, Dorchester, Mass.

POSITION wanted by an elderly man as salesman in a retail Hardware store; city or country; over twenty years' experience. Reference, Peter Duryee & Co., New York City. JOHN BARRETT, Hudson Boulevard, West Hoboken, N. J.

SITUATION wanted as superintendent, assistant or general foreman of machine works or factory. Have extensive experience in managing the manufacture of general and wood-working machinery, machine tools and bicycles; well up in modern machine shop practice, designing and draughting; successful in reducing cost and estimating. Address R. U. S., care HARDWARE, No. 143 Chambers Street, New York.

OFFICE MANAGER, fifteen years' experience in general Hardware business, familiar with all details of manufacturing Hardware specialties, correctly tabulating statistical information, man of ability, judgment and experience, expert financier, with good executive ability, rapid and original letter writer, practical turn of mind, quick, comprehensive and energetic, would like a position by February 1st; expectations moderate; highest integrity. Address A. B. C., office of HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

WANTED by a practical mechanic with eighteen years' experience in the manufacturing of wood-working machinery and iron tools. Has had charge of machine shop for ten years and buying of supplies. A position as superintendent, assistant manager or traveling salesman. A1 references. Address H. A. CANT, Lancaster, Erie County, N.Y.

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Situations Wanted.

MAN, thirty-one years old, wants to change his position; nine years' experience in retail Hardware as bookkeeper, buyer and salesman. Experience on road. A1 city reference given. Moderate salary. Address LOCK, Box 34, Jeannette, Pa.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York, in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE-No. 143 Chambers Street, New York.

POSITION as head of department, purchasing agent or salesman, sixteen years' experience; two years with one of the largest retail houses in New York State; first-class references; Eastern States preferred. Address M., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and, general Hardware finishing. Address J. G. K., No. 535 Park Street, N.Y.

SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

SITUATION wanted by a young married man 29 years of age. Does not use liquor or tobacco; acquainted with paints, etc.; strong and willing; references. Address C. LUNDQUISTE, No. 229 Sackett Street, Brooklyn, N. Y.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

A PRACTICAL Hardwareman, 26 years of age, who has had eight years' experience in the wholesale Hardware trade as bill clerk and salesman, wishes a position where he can make himself useful in the present and find opportunity for advance in the future. Is a hard worker, painstaking, accurate, and swift in figures, and can adapt himself to office or clerical work of any nature. First-class references can be given. Address S. H. N., care of HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chanbers Street, New York.

POSITION wanted by a young man, five years' experience in one of the largest retail stores in Ohio. Speaks both English and German and can give references. Address L. M. S., care HARDWARE, No. 143 Chambers Street, New York.

A YOUNG man 24 years of age, wants a position as bookkeeper or assistant. Salary $12. Good references. Address M. L. S., care HARDWARE, No. 143 Chambers Street, New York.

TRAVELER 15 years' experience in New York, Pennsylvania and Ohio, controlling a very large trade, thirty to forty thousand dollars per annum, would like a position by January 1st. Possess energy, ability and thorough knowledge of general Hardware, tinware and metals, first class references. Address T. B. C., care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted by thoroughly experienced man as Hardware sales man on the road. Large acquaintance in the trade. E. A. S., care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

WANTED—By a party who represents a line of commission goods; is open for a number of good lines. Address R. H. J., care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman wishes to add good selling line for Hardware, paint, cycle or general store trade. References; state particulars, and address "36," care HARDWARE, No. 143 Chambers Street, New York.

AN A No. 1 side line wanted by a first class specialty salesman, visiting Hardware and cutlery trade throughout New England States. "ESTABLISHED TRADE," care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman throughout New England and Middle States, with permanent address on Broadway, New York, would like novelties and lines of S. M. belts, oil or tailor's shears. Exclusive agency in above territory preferred. Address JOHN F. DOWD, No. 239 Broadway, New York City.

Side Line Offered.

TRAVELING salesmen visiting Hardware, tin and stove department or general store trade in Ohio, Michigan, Indiana and Illinois to carry side line. Seasonable goods and fast sellers. Address "COMMISSION," care HARDWARE, No. 143 Chambers Street, New York.

WANTED—Traveling salesmen visiting the wholesale Hardware and rubber trade to carry an up-to-date patented novelty as a side line. Send 50 cents for sample, post-paid. Address ORDNER MFG. CO., Cleveland, Ohio.

SALESMEN wanted to sell our line of snaps, chain goods and Hardware specialties on commission Expenses guaranteed to right parties. Sell to Hardware and harness trade. Give reference, territory and experience. IRA F. WHITE & SON, 76 Park Place, New York.

To Let.

FRONT portion of loft, one flight up, suitable for manufacturer's sample room; very light; steam heat. Located in heart of wholesale district. Will lease for one year from May 1st. Address "EXCELLENT," care HARDWARE, No. 143 Chambers Street, New York.

ONE of the finest rooms in Ohio, finished specially in hard woods for Hardware trade and used for such twenty-six years, may be enlarged to include tinware, plumbing and roofing. Rare opportunity. Address W. B. Carey, Salem, Ohio.

For Sale.

NEW, well selected stock of Hardware, builders' supplies, stoves, paints, etc. Trade well established. Located in a first-class town of 3000 inhabitants. Cousidered the neatest store in Central Ohio. Splendid farming country surrounding. Will be sold to dissolve partnership. Address X. Y. Z., care HARDWARE, No. 143 Chambers Street, New York.

A NICE, clean stock of Hardware in one of the most prosperous county seats in Ohio. An established and profitable business. Good reason for selling. Address, immediately, "WARWICK," care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE store twenty miles from New York; doing good business. Rare chance for a live man. Owner will give satisfactory reasons for disposing of same. Price, $3500. Address H. H. G., P.O. Box 2383, New York City.

A PATENT for, manufacture and sell a sash lock, that will lock one, or both sash at the same time, any place from bottom to top of window. Guaranteed perfect. J. T. PARKINSON, Beaver Falls, Pa.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A WELL-KNOWN Hardwareman, with a continuous experience of 20 years, desires to represent a few leading manufacturers as sales agent in this city, or would be willing to accept the position of purchasing agent for some corporation where his services would be valuable. Competency undoubted. Address B. B. B., care of HARDWARE, No. 143 Chambers Street, New York.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

Hardware Specialty Agency Wanted.

A RELIABLE house on the Pacific Coast wants exclusive agency for Hardware and specialties on commission basis. A first-class chance for those who wish to extend their Coast connections. Address A. R. D., care HARDWARE, No. 143 Chambers Street, New York city.

Wanted to Purchase.

WANTED to purchase a retail Hardware, house-furnishing, lumber, building material or coal business in a live, growing town, having a good location, doing a good business. State full particulars and price. JOHN R. SWARTZ, Hughesville, Pa.

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WRITE FOR QUOTATIONS



GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."



For Christmas "ERIE" ALUMINUM, The Finest Ware.
GRISWOLD MFG. CO., Erie, Pa.

AMES SWORD CO., Chicopee, Mass.

OUR SPECIALTIES:

PERFECTION PADLOCKS,

All Sizes, ½ inch to 2½ inches.

BICYCLE REVOLVERS,

THE GREATEST NOVELTY OF THE AGE.



Compressed Seam Fork Sides and Handle Bars.

CORRESPONDENCE SOLICITED.

KICKERS for DOUBLE SEAMING.

Every up-to-date man wants a set. How about you? Must have them to work cheap nowadays.

L. D. BERGER'S

Tinners' and Roofers' Supply House,

59 N. 2nd St., PHILAD'A, PA.

"DAILY FEEL THE BENEFIT."

Energy Mfg. Co., Philadelphia, Pa. [Dumbwaiters]: We daily feel the benefit of our card in your columns.



BOOMER STEEL RANGE,

With High Closet.

Rolling Front. Six Holes. Stationary or Portable Reservoir.

Hard or Soft Coal, also burn Wood 27 inches long.
No. 14 Gauge best steel throughout.
Oven door balanced with an improved method of Coil Spring and Toggles.
Grate removed in an instant.
First-class, Latest and Up-To-Date Range in every respect.

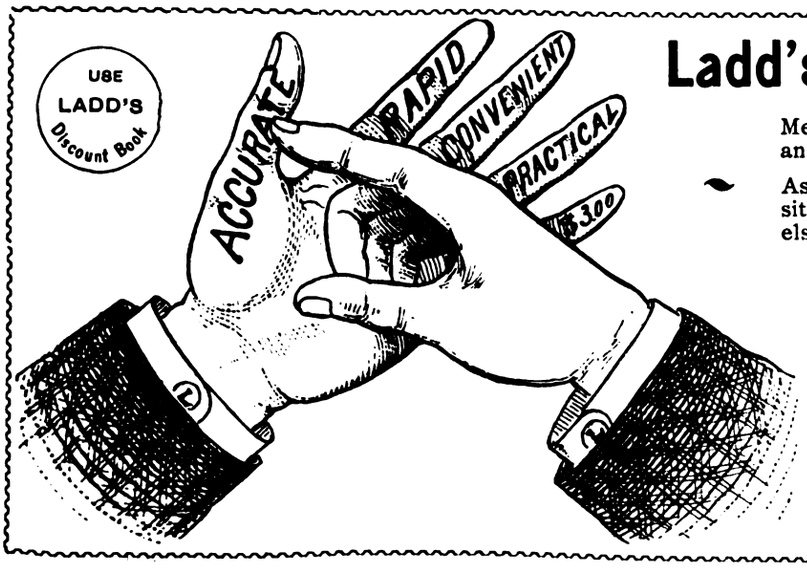
WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

When you want a GOOD FURNACE don't forget the

CELEBRATED BOOMER.

HESS, SNYDER & CO., Manufacturers,

No. 73 South Erie Street, MASSILLON, OHIO.



Ladd's Discount Book . . .

Means time saved, trouble saved, temper saved and, consequently, money saved.

Assures accuracy, thereby saving you the necessity of apologizing to yourself or to some one else for errors.

Comprises 200 pages of conveniently arranged tables, embracing 120,000 computations, giving the net of any sum at almost any combination of complex discounts.

REGULAR EDITION, - - $3.00.
DOUBLE INDEXED, - - 4.00.

Sent post-paid on receipt of price by

HARDWARE PUBLISHING CO.,

. . . . N. 143 Chambers St., New York.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... 40&12½&5
Railroad.....

Ammunition—

CAPS, PERCUSSION—₩ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....28 @ 30c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....20&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.. .....65&2%

SHELLS, LOADED—
"New Club," Black Powder... 40&10&5@40&10&10%
"Black Club," Black Powder... 4"&10&2½@40&10&5%
"Smokeless" Nitro Powder.... 40&10&10&10%
"Acme," Dense Nitro Powder.. 40&10&10&10%
"Trap," Nitro Powder...40&10& 10&10%

GUN WADS—₩ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c.. } 20&2%
P.E., 11 up.1.00..P.E., 9&10..$1.35
P.E., 8....1.50..P.E., 7.....1.50

SHOT—
Drop Shot, sizes smaller than B, 25-₤ bags ₩ bag.....$1.23
Drop Shot, sizes smaller than B, 5-₤ bags, ₩ bag.....$ .30
Drop Shot, B and larger sizes, 25-₤ bags, ₩ bag.....$1.47
Drop Shot, B and larger sizes, 5-₤ bags, ₩ bag.....$ .35
Buck Shot, 25-₤ bags, ₩ bag...$1.47
Buck Shot, 5-₤ bags, ₩ bag....$ .35
Chilled Shot, 25-₤ bags, ₩ bag..$1.50
Chilled Shot, 5-₤ bags ₩ bag..$ .35
Dust Shot, 25-₤ bags, ₩ bag....$2.00
Dust Shot, 5-₤ bags, ₩ bag.....$ .50

POWDER—
Laflin & Rand Powder Co.:
Orange Rifle "Extra," F, FF, FFF, in kegs 25₤.....$4.00
½ kegs 12½₤..... 2.25
¼ kegs 6¼₤..... 1.25
1₤ canisters..... .15
½₤ canisters..... .12
¼₤ canisters.....
Orange, Special, Nos. 1 and 2, in kegs, 25₤..... 5.00
½ kegs, 12½₤..... 2.75
¼ kegs, 6¼₤..... 1.50
Orange Ducking, Nos. 1 to 5, in ¼ kegs, 6¼₤..... 2.25
1₤ canisters..... .45
Orange Lightning, Nos. 1 to 7, in 1 ₤ canisters..... .75
[For 1000 ₤ lots 10% discount.]
Laflin & Rand W.-A. Smokeless:
Sing'e Canisters.....$1.00
10-Can Drums.....$9.00
Discounts on application.
Blasting and Mining, "A," in kegs, 25₤.....2.25
Blasting and Mining, "B," in kegs, 25₤.....1.50

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.:
In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 ₤ each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 ₤ each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ ₤ each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 ₤ each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 ₤ each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ ₤ each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ ₤ each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 ₤.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ ₤..... 4.25
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ ₤..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 ₤..... 4.00
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ ₤..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ ₤..... 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 ₤..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ ₤..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 ₤..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ ₤..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ ₤..... 1.50
Mealed Powder, in Kegs, 25 ₤. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 ₤..... 2.15
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 ₤..... 2.15
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 ₤..... 1.40
Du Pont Sporting Powder, for lots 1000 ₤ 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 ₤ Black Powder.....$22.00
Half Kegs, equal in bulk to 12½ ₤ Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ ₤ Black Powder..... 5.75
Canisters, equal in bulk to 1 ₤ Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks ₩ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montross, Galien, Mich.:
Camp's Success.....₩ doz. $3.80
Galien Safety.....₩ doz. $3.75
Hartman's Pivot.....₩ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....₩ doz. $3.25
Western.....₩ doz. $3.75

Anti-Rattlers—

Fernald, Wire....₩ doz. pairs. .75
Burton's, No. 2....₩ doz. pairs. .75
Burton's, with bolt holder, No. 1.....₩ doz. pairs.$1.00
Kohler's:
Invisible, No. 3.....₩ gro. $6.80
Perfect, No. 2 .....₩ gro. $7.00
Bolt Holder, No. 1....₩ gro. $9.00

Anvils—

American "Horse-Shoe"...9¼@9¾c
Armitage's Mouse Hole....8¾@9¼c
Eagle Anvils, ₩ ₤ 9c.....15@15&5%
Hay-Budden, Wrought.....8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $15.00..30%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....25&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....25%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 30.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. 1C Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 25&10&2½%

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $34.00. 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓%
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, ₩ doz. $60....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2. $45.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond ₩ doz. $1.35.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, ₩ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....50%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Detroit.....60@70%
K. & F.....60&10&10&5%
Syracuse, for wood.....40%
W. & B. Diamond.60&10@60&10&10%

TWIST DRILLS—
Cleveland.....60&10@70%
Detroit.....60&10&5@70&5%
K. & F. Straight Shank..60&10&10%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard .....60&10@70%
Syracuse.....60&10@7?%
W. & B. Diamond.....60&5@60&10%
W. & B. Universal Self-Oiling...10%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....60&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....25%
Dunlap's Handled.....25%
Handled Brad, ₩ gr.....$3 00@$3.25
H'ld Scratch ₩ gr.....$3.75@$4.00
Pat. Peg ₩ gr.....35@35c
Sewing, Com.....₩ gro., 85c@$1.00
Should. Peg ₩ gr.....$1.35@$1.45
Shouldered Brad. ₩ gr....$1.50@$1.65
Socket Scratch ₩ doz....$1.00@$1.10
Stanley Rule & Level
Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Seats—

Aiken's Awls and Tools:
No. 10 ₩ doz. $7.50; No. 20, ₩ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $18; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%

Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $12; 4, $12; 5, $18.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 ₩ dozen net.

Axes—

First quality, best brands.$5.00@5.25
First quality, other " $4.50@4.75
Beveled add 50c ₩ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $15.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@50&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....50&10%
Fayette R. Plumb:
Broad, New List.....40&12½%
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½%
Vulcan Tool Co.....60%

Balances—

Chat llon's:

No.	2000	20	30
₩ doz.	75c	85c	$1.65 net

Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24₤.....₩ doz. 80c net.
Ice.....50&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....20%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@50%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....50%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....50&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....60&5@60&10&5%
Moulders.....60&5@60&10&5%

Belting, Rubber—

Boston Belting Co.;
"Boston".....50&10&5%
"Imperial," seamless, stitched 40&5%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....15@15&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..₩ doz. $2. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 ₩ doz.....30%
Millers Falls.....15&10%

Bicycle Tires—

W. & B .....₩ pair, $6.50
W. & P.....₩ pair, $7.00

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Bit Holders—

Angular....40&5%
Extension:
Barber's, ₱ doz. $15.00....45%
Ives' ₱ doz. $20.00.60&10@60&10&5%

Blind Adjusters—

Domestic..₱ doz. $3..33⅓@33⅓&10%
Excelsior..₱ doz. $10.00....50&10&2%
N rth's....10%
Zimmerman's....50&10@50&10&5%

Blind Fastenings and Tenons—

Austin & Eddy ₱ gro. sets....$5.50
Gorhans Improved Star Tenon ₱ gro. $1.00....25%
Merriman's Brass Lever ₱ gr. $15.00
Merriman's Iron Lever ₱ gr....$9.00
Millers Falls ₱ set $1.00....15&10%
Security Gravity ₱ gr....$9.05
Van Sand's....55&10%
Washburn's Plate ₱ gr....$9.00
Zimmerman's....50&10@50&10&5%

Blocks—

Cleveland Block Co. Steel.60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining....30%
Pat. Automatic....30%
Perfect Safety....30%
Stowell Novelty Block....50&10%
Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c....70%
Cast Iron Chain....50&10%
Cast Iron Shutter Bolts....70%
Ives' Patent Door Bolts...60&10&5@ 60&10&10%
Wrought Barrel....75&10@80%
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list.. 60&10&5@70%
Wrought Shutter, Sargent's list.. 60&10&5@70%
Wr't Sunk Flush, Sargent's list. 50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—

Bolt Ends....80@80&5%
Machine....80@80&5%
Carriage, Common....75&5@75&10%
Norway Iron, list Oct. '84..75&10@ 75&10&5%
Phila., Eagle, list $3.00....85&10%
R. B. & W., $2.40 list....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96. 75&10%
Bay State, Fluted....75&10%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96. 80%
Common, list Feb. 28, '83..75@75&10%
Eagle....85%
R. B. & W., list Oct. 16, '84....80%

STOVE AND PLOW—

Plow....70@70&10%
R. B. & W., Plow....65%
Stove....75&10%

MISCELLANEOUS—

Sink....75&10%
Sleigh Shoe....35%

Bone Mills—

Enterprise....20%

Borers, Tap—

Common and Ring....20&10@35%
Enterprise, No. 1, $1.25; 2, $1.65; 3, $2.50 each
Ive's....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'	$2.50	$3.00
Jennings'	2.50	3.00
Millers Falls	7.50	15&10%
Other Machines	2.25	2.50....net
Phillips' Patent with Augers	7.00	10....
Snell's, Rice's Pat.	2.50	$2.75

Bow Pins—

1¼ inch, ₱ gro....$4.50@$5.00
inch, ₱ gro....$5.00@$5.50

Boxes, Mail—

Heller's....40&5%

Braces—

Barber's....50&10@60&10%
Barber's Ratchet....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30....70@75%
Nos. 117, 118, 119....70&75%
Common Ball American..$1.10@$1.20
Ives':
Barbers'....60&5%
Barber Ratchet....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet..60&10@60& 10&10%
Spofford....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114....60&10%
No. 208½@212....60%
Lancaster Mach. & Knife Works..45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's....50&10&5%

Brackets—

Door Screen....70&10%
Moore's....70&5%
Shelf, Bradley's Patent....80&10%
Shelf, Plain, Regular list....70&10%
Shelf, Fancy, Sargent's list.60&10@ 60&10&5%
Window Screen Corner....70&10%
Reading, plain....70%
Reading, Rosette....70%

Bright Wire Goods—

Standard list....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s.80@80&10%
Peck, Stow & Wilcox Co.'s.60@60&10%
Sargent's....80@80&10%
Seymour Smith & Sons....60%

Butcher's Cleavers—

Beatty's....40&5@40&10%
Bradley's....25@25%
Dunlap's Family....25%
Foster Bros. Flat Hds....30%
Foster Bros. Round Hds....40%
Lancaster Mach. & Knife Works.40%
L. & L. J. White....25%
New Haven Edge Tool Co.'s....40%
P. S. & W....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise....25%
C. E. Jennings & Co.:
No. 6....40%
No. 10....30%

Butter and Cheese Triers—

Ordinary Black Handle....25%

Butt and Rabbet Gauges—

Stanley's....25&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96.40@ 40&10%

CAST IRON—

Loose Joint....75@75&5%
Loose Joint, Japanned....75@75&5%
Loose Joint, Jap. with Acorns. 75@75&5%
Loose Pin....75@75&5%
Mayer's Hinges....75@75&5%
Parliament Butts....75@75&5%
Sargent's:
Fast Joint, Broad....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronzed Inside Blind Butts.50&10 @50&10&5%
Bronzed, Narrow...50&10@50&10&5%
Fast Joint, Narrow, } 75%
Fast Joint, Light Narrrow.... } 75%
Fast Joint, Broad.... } 75%
Loose Joint.... } 75%
Loose Pin.... } 75%
Table Butts, Back Flaps, etc.. } 75%

Can Openers—

American....₱ gross $1.75@$1.90
Columbian....₱ gro. $14.40
Dunlap's Iron Handle, No. 3 ₱ gr. $13.00....25%
Dunlap's Sardine Scissors, ₱ doz. $5.00....25%
Dunlap's Wood Handle No.2$1.75.25%
Goodell's Acme....₱ gr. $6.00
No. 5, Iron Handle, ₱ gr....$2.00@2.25
Sardine Scissors...₱ doz. $2.00@2.25
Sardine Scissors, Forged Steel, ₱ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2.50....70&10%
Universal, ₱ doz. $3.00....55&5%
World's Best, ₱ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton....20@25%
Horse and Curry....20@25%
Wool....20@25%

Carpet Stretchers—

Bullard's....33⅓%
Cast Iron Steel Points, ₱ doz.75@80
Cast Steel, Polished....₱ doz. $2.25
Dunlap's....20%
Excelsior....25%
Socket....₱ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal.... } Cyclone Bearing ₱ doz. $24.00
Grand.... } Cyclone Bearing ₱ doz. $26.00
Grand Rapids. } Cyclone Bearing ₱ doz. $33.00
Hall.... } Cyclone Bearing ₱ doz. $60.00
Prize.... } Cyclone Bearing ₱ doz. $24.00
Premier.... } Cyclone Bearing ₱ doz. $24.00
Superior.... } Cyclone Bearing ₱ doz. $24.00
Crown Jewel, japan finish, ₱ doz $19.00
Crown Jewel, nickel, ₱ doz. $31.00
Furniture Protector, Japan....₱ doz. $22.00
Furniture Protector, Nickel....₱ doz. $24.00
"Standard A," Jap...₱ doz. $20.00
"Standard A," Nick..₱ doz. $22.00
Standard....₱ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby....₱ doz. $2.50
Child's....₱ doz. $3.00
Little Jewel....₱ doz. $6.00
Little Queen....₱ doz. $4.00
Misses....₱ doz. $9.00
Quantity rebates on application.

Goshen Sweeper Co:		Per Doz.
Champion		$17.00
Eureka		$12.00
Goshen's Junior		$ 9 00
Ladies' Friend No. 1		$15.00
Ladies' Friend No. 2		$16.00
Our Leader		$18.00
Banner	Nic.	$20.00
Banner	Jap.	$22.00
Grand Republic	Nic.	$33.00
Mammoth	Nic.	$72 00
Rapid	Nic.	$20.00
Rapid	Jap.	$22.00
Reliable	Nic.	$20.00
Reliable	Jap.	$22.00
Select	Nic.	$20.00
Select	Jap.	$22.00
Star	Jap.	$20.00
Unrivalled	Jap.	$18.00
Unrivalled	Nic.	$19.00
Acme	Nic.	$24.00
Common Sense	Nic.	$24.00
Easy	Jap.	$22.00
Easy	Nic.	$24 00
Gilt Edge	Nic.	$24.00
Imperial	Nic.	$26.00
Majestic	Nic.	$24.00
Model	Nic.	$24.00
Our Best	Nic.	$24 00
Our Own	Nic.	$24 00

Broom-Action.
Cam-Action.

Casters—

Bed....60&10&10@70%
Deep Socket....60@60&10%
Giant Truck Casters....35%
Gwinner's Common Sense....50%
Gwinner's Hercules....50%
Martin's Patent (Phœnix). 60@60&5%
Plate....60&10&10@70%
Socket Truck Casters..45&10@45& 10&10%
Stationary Truck Casters....50&10%
Store Truck....55%
Swivel Truck....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84....50&5%
Yale Gem....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@ 70&10&10%
Peck, Stow & W. Co....65%
Sargent's....70&10@70&10&10%

COW TIES—

American....60&10%
Covert's Horse and Cattle:
Jute....45%
Manilla....45%
Sisal....45%
Triumph....45%

Chain—

American Coil, Ass'n cask prices.

3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Bridgeport Chain Co.:
Brown, Coil....60&10&5%
Brown, Halter....60&10&5%
Monarch, Sash....60%
Triumph, Coil....60&5%
Triumph, Halter....60&5%
Covert Saddlery Works:
Breast Chain....60&20%
Hitching Chain....60&20%
Rein Chain....60&20%
Covert Mfg. Co. Chains....45%
Covert's Halter Chains....45&2%
Covert's Heel Chains....45&2%
Galvanized Pump Chain, with Buckets....5@5½c
German Coil....60&10&5@70%
German Halter Chain..60&10&5@70%
Jack Chain, Iron....70@70&10%
Jack Chain, Brass....70@70&10%
Oneida Halter Chain....60@60&10%
Plumbers....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Chain Guards—

Aluminum S. & N. Co....50%

Cherry Stoners—

Enterprise....25%
Family....net ₱ doz. $4.00

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros....30%
Charles Buck....30%
Douglass....75@75&10%
Hinsdale....
Mix....
Ohio Tool Co....
P. S. & W....
Sag Harbor Tool Co....
Swan....
Winsted Edge Tool Co....
} 75&10 &5%
C. E. Jennings & Co. No 70....35&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder....60&10%

TANGED AND MISCELLANEOUS—

Box....60&10%
Buck Bros....30%
Butchers'....$4.75@$5.00 to 2
Cold Chisels, good quality, ₱ D 14c@16c
C. E. Jennings & Co....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges....40&10%
Spear & Jackson's....$5 to 2
Tanged Firmers'....50@50&10%

Chucks—

Beach Pat....each 36.00....30%
Cushman's:
Combination....40%
Independent....50%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat....30%
Skinner's Pat. Drill Chucks....30%
Skinner's-Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck....40%
Union Mfg. Co.:
Combination....40%
Independent....40%
Universal....40%
Victor, No 1, $8.50; No. 2, $12.50..25%

Clamps—

Adjustable, Cincinnati...15@15&10%
Adjustable, Hammers....15@15&5%
Adju table, Stearns'....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati...15@15&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co.. 40&10%
R. I. Tool Co.'s Wrought Iron....30%
Smith's:
Eccentric....25%
Splicing....25%
Splicing Tools....25%
Warner's....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank....₱ doz. $3.25
Star Shank....₱ doz. $4.50
Star Socket....₱ doz. $3.75

Clippers—

HORSE—

Chicago Flexible Shaft Co.'s:
Chicago Belt Clipping Machine, Each $15 00...1%
New '98, Chicago..Each $17.75..15%

TOILET—

Chicago Flexible Shaft Co.'s:
Handy....₱ doz. $7.20 net
Mascott....₱ doz. $3.40 net
Monitor....₱ doz. $9.00 net
Stewart Pat....₱ doz $10.00 net

Clips—

Norway Axle....70@70&10%
Norway Spring Bar Clips.70@70&10%
Superior Axle Clips....70&10@75%

Coffee Mills—

Box and Side....60&10@60&10&5%
Enterprise Mfg. Co....25%
Logan & Strobridge Co...net prices
National Specialty Mfg. Co....30%
The Swift, Lane Bros....33⅓%
Waddell's New Box Mills, Ideal Brand, New List....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers....40%
Bemis & Call Co.'s:
Compasses....50&5%
Dividers....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers....40%
Inside, Outside and Double....70%
Registering....50%
Wing Calipers....70%
Wing Dividers....75%
Stevens's "Ideal"....25&10%
Stevens's "Leader"....55%
Starrett's Fay's Patent Spring Calipers and Div...25&10%
Wright's Graduating....15%

Coopers' Tools—

Bradley's....30%
Barton's....30@30&5%
Beatty's....33⅓%
L. & L. J. White....30@30&5%
Sandusky Tool Co....35&10@30&10%
Shaves, Cincinnati Tool Co.. 15@15&10%

Corkscrews—

Detroit Cork-Screw Co....33⅓%
Howe Bros. & Hulbert....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson....₱ doz $10.00
Williamson's....40%

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Corn Hooks—

Kretzinger Cut-Easy, ₩ doz. $3.00 net

Corn Knives and Cutters—

Bradley's....10%
Wadsworth's....25@25&10%

Counter Sinks—

Adjustable....20%
Countersink Bits....40&10%
Shepardson's Diamond....40@45%
Smith's....25%
Wheeler's Patent....40%

Crayons—

Sargent's List....30%
Dixon's
Eclipse....₩ gro. $3.75
Emerald....₩ gro. 5.00
Oriole....₩ gro. 5.00
Rainbow....₩ gro. 2.81
Solid....₩ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20,'96....25&10%
Perfect....25&10%
Rubber, ₩ doz. $7.50....20@30&10%
Southington Cutlery Co.'s List, Nov. '96....25&10%

Cycle Hangers—

Lane's....33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment)....40%
Leather (full assortment)...50&10%
Keystone Mfg. Co.:
Low List....50%
Leather Muzzles....50&10%
Medford Fancy Goods Co. list..40& 10@50%
Union Hardware Co. New List. 50&60&10%

Door Checks—

Bardsley's....30%
Eclipse....60@60&10%
Unity F. G....50%

Door Openers, Electric—

Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list....$36.00

Door Springs—

Champion (Coil)...50&10@50&10&10%
Foster's (Coil)....30%
Gem (Coil), list Oct. '95....25%
Norton....10@60%
Rubber, complete, ₩ doz. $5.50. 66⅔@70%
Star (Coil), list Oct. '95....33⅓&10%
Torrey's Rod, 30 in, ₩ doz $1.25@1.35
Victor, Coil....60&10@60&10&5%
Warner's....55@55&10%

Drawer Pulls—

Sargent's List....60%

Drawing Knives—

Adjustable Handle....40@40&10%
Bradley's....35%
Douglass....75@75&10%
Jennings & Griffin....75&5%
Merrill & Wilder....60&10%
Mix, New Haven, P. S. & W, Witherby....75& 10& 5%
Watrous....30@30&10%
L. & I. J. White....2.5&5@35%
Wilkinson's Folding....25@25&5%

Drills and Drill Stocks—

Automatic Boring Tools..$1.75@1.85
Blacksmiths'....each $1.75
Breast, Bartholomew's No. 12, ₩ doz....$16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W....40&10%
Breast, Wilson's....30&5%
Graves Drill Stocks....40%
Ratchet, Billings' Dble. Acting..33⅓%
Ratchet, Ingersoll's....35%
Ratchet, Merrill's....30@30&5%
Ratchet, Moore's Triple Act..25@30%
Ratchet, Parker's....40%
Ratchet, Whitney's....20&10%
Ratchet, Weston's....30@35%
Stearns' Bench....50@50&10%
Whitney's Hand Drill, No. 1, $10.00; Adjustable No. 10, $12.00....33⅓%
Wilson's Drill Stocks....10%

TWIST DRILLS—

See Augers and Bits.

Drug Mills—

National Specialty M'f'g. Co.... 30%

Egg Beaters—

Dover (Standard Co.) No. 10 ₩ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15....₩ gro. $11.00
Paine, Diehl & Co.'s Keystone..33⅓%
Spiral....₩ gro. $4.35@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric....$2.00 each, less 50%
Annunciators, $1.50 ₩ drop, less 50%
Batteries, Leclanche...60c. each, less 50%
Batteries, Carbon..60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry....50c. ea., less 50%
Bells, Electric, 2¼, 50c. ea., less 50%
Call Bell Outfit, Electric...$2.00 each, less 50%
Desk Pushes Electric..80c. each, less 50%
Door Springs, Electric...24c. ea., less 50%
Early Risers' Set, Electric..$3.50 each, less 50%
Floor Pushes, Electric...6 c. ea., less 50%
Gas Burners, Electric....5 c. ea., less 50%
Gravity Batteries, $1.00 ea.. less 50%
Hydrometers....75c. each, less 50%
Incandescent Lamps..4 c. each, less 50%
Induction Coils, Telephone 6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood..10c. each, less 50%
Sal Ammoniac...18c. ₩ lb, less 50%
Switches, 1 pt....20c. each, less 50%
Switches, 2 pt....24c. each, less 50%
Switches, 3 pt....28c. each, less 50%
Spark Coils, 8 pt..$3.00 ea., less 50%
Spark Coils, 10 pt $3.40 ea., less 50%
Spark Coils, 12 pt.....$3.80 each, less 50%
Tape, Insulating, 80c. ₩ lb. less 50%
Tube, Speaking, $21.00 ₩ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₩ doz., less 50%
Whistles, Speaking Tube, Porcelain....75c ₩ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric...24c. each, less 50%
Yale Lock Switch, Electric, $2.50 each, less 50%
Zincs, Leclanche...04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, CF FF.
Kegs, ₩ lb.	4½c	5c	3c
½ kegs, ₩ lb.	4½c	5½c	3½c
¼ kegs, ₩ lb.	5c	5½c	3½c
10 lb cans, 10 in case....	6c	6½c	5½c
10 lb cans, less than 10..	10c	10c	8c

Enameline—

No. 4, ₩ gro....$4.50
No. 6, ₩ gro....$7.20

Escutcheons—

Brass Thread....60@60&10%
Wood....35%

Escutcheon Pins—

Brass....70@70&10%
Iron, list January, 1890....60@60&5%

Farriers Knives—

"Challenge"....₩ doz. $3.00
Popes....₩ doz. $3.00
Wilkinson's....₩ doz. $3.00

Faucets—

Brass Globe Cocks....60&10%
Brass Racking....60&10%
Burnside's Red Cedar....50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball....25%
Benn's Cork Stops....60%
Frary's Pat. Petroleum...60&10@70%
John Sommer's "Peerless," Tin Key....40%
John Sommer's "Boss," Tin Key.50%
John Sommer's "Victor," Metal Key....50&10%
John Sommer's "Duplex," Metal Key....60%
John Sommer's "Buckeye," Metal Key....40%
John Sommer's "Rochester," Metal Key....50%
John Sommer's "Rival," Metal Key....50%
John Sommer's "Crescent," Metal Key....50&10%
John Sommer's "Diamond," Lock 40%
John Sommer's "Eclipse," Lock.. 40&10%
John Sommer's "Union," Lock.50%
John Sommer's "I. X. L.," Cork Lined....50%
John Sommer's "Reliable," Cork Lined....50&10%
John Sommer's "Common," Cork Lined....70%
John Sommer's "O. K.," Cork Lined....50%
John Sommer's "Chicago," Cork Lined....60%
John Sommer's "Perfection," Cedar....40%
John Sommer's "No Brand," Cedar....50&10%
Star....60@60&5%

SELF MEASURING—

Enterprise ₩ doz. $36.00....40%
Lane's ₩ doz. $36.00....40%
National Specialty Mfg. Co....33⅓%

Files—

DOMESTIC—

American....70&10@75%
Arcade....70%
Derey....75&10%
Disston's....75%
Economy....75&10%
Great Western....70&10@75%
Kearney & Foot....70&10@75%
Nicholson....70%
Nicholson's X. F. Files...80@20&10%
Royal....75%
Second Quality Files....80@80&10%
Tiger....75%
Troy File Works:
Files....70&10%
Rasps....70%
Victor....75&10%

IMPORTED—

Stubs....Stubs' list, 25@30%

Filters—

Seed's Water Filters:
A 1, $4.00; No. 2, $2.50; No. 3, $1.50; No. 4, $1.00 ₩ doz.

Fish Hooks—

Amer. Fish Hook Co. list.60@60&10%
Kirby & Limerick, low list (50c base)....10%

Fish Scalers—

Covert's Saddlery Works:
Great American....60&20%
Fitch's....25&10%

Fluting Scissors—

List....45%

Forks—

Champion, Hay, Manure, etc 75&15%
Columbia, Hay....75&10%
Columbia, Manure....80%
Columbia, Spading....80&5%
Hay....75%
Iowa Farming Tool Co.:
Barley....60&40%
Manure, 4 tine....75&10&2½%
Manure, 5 and 6 tine....70&20&5%
Spading....75&10&2%
Victor, Hay....75&10%
Victor, Manure and Header....80%

Freezers, Ice Cream—

Blizzard....net
Gem....net
Granite State....net
Improved Arctic....net
Keystone, P. D. & Co....20%
Ohio....60&10%
Packer's:
Confectioner's Machine....net
Double Action Standard....net
Good Luck....net
Standard....net
Shepard's Lightning....net
White Mountain....net

Fruit, Wine and Jelly Presses.

Enterprise....25%

Fry Pans—

Acme Fry Pans....70&10%
Polished, regular goods...75@75&10%
Standard List....75&10@80%

No	0	1	2	3	4
₩ doz.	$3.00	$3.75	$4.25	$4.75	$5.25
No	5	6	7	8	
₩ doz.	$6.00	$7.00	$8.00	$9.00	

Gas Burners, Self-Lighting—

Gem....₩ doz. $2.50
In lots of 3 doz....₩ doz. $2.25

Gauges—

Bemis & Call's Steel....50%
Boss, Screw Pitch....33⅓%
Clapboard....25&10%
Marking, Mortise, &c..60&10@50& 10&10%
Stanley's....60&10%
Stanley's Chisel....25&10%
Starrett's Surface, Center and Scratch....25&10%
Copeland Champion Bit ₩ doz $3.00 net
Stubs' Wire and Drill....30%
Wire, Morse's....25%
Wire, P. S. & W., low list.... 10&10%
Wire, Wheeler, Madden & Co....10%

Gimlets—

"Bee," ₩ gr $12....25@25&10%
Bell Hangers....50%
"Diamond" Gimlets ₩ gr. $4.00@4.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ives'...60&10@60&10&5%
"Eureka" Gimlets.60&10@60&10&5%
Metal head....55%
Nail Gimlets:
Assorted 1, 2 and 3....₩ gr. $1.50
Assorted 2 and 3....₩ gr. $1.70
Pod....50%
Star....50%
Spike Gimlets:
Assorted 1, 2 and 3....₩ gr. $3.00
Assorted 2 and 3....₩ gr. $3.25
Wood head....50&10%

Glue—

Dodd's Liquid Glue....25&25&10%
Le Pages Liquid....25&25&10%

Glue Pots—

Family, Howe's "Eureka"....50%
Family, L. F. C.'s "Handy"....60%
Enameled....45@50%
Tinned....45@50%

Graters—

Champion Nutmeg....₩ doz. $9 00
Edgar's Nutmeg..₩ gro. $10.50...10%
Enterprise....35%
Rotary Nutmeg....₩ gro. $9.00

Grindstone Fixtures—

Howard Iron Co....30%
P., S. & W. Co....50&10&10%
Russell & Erwin....70&10%
Sargent's Patent..70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's....₩ doz. $6.50

Halters—

Covert Mfg. Co....45&2%
Covert's Saddlery Works:
'96 List....60&20%
Upson & Wooding....40%
Wright's Animal Tether....30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co....50&10@60%
Henry Cheney Hammer Co.
Handled Claw....40&10%
Machinists'....60&10%
C. Hammond & Son, List..4.&10@50%
Humason & Beckley....50@50&10%
Dunlap's Patent....25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75....40&10%
Maydole's....33⅓&5@40&5&5%
Peck, Stow & Wilcox....40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail....40&7½%
Engineers & B. S. Hand....50&15%
Y. & P., A. E. Nail....40&12½%
Other Brands....60&10@60%
Sargent's New List....45@50%
Verree....50&10@60%
Warner & Nobles New List..35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb...₩ lb 40c
3 to 5 lb....₩ lb 35c } 75@80%
Over 5 lb....₩ lb 30c
Wilkinson's Smiths....9½c@10c₩ lb

Hammock Ropes—

Covert Mfg. Co....45%
Covert's Saddlery Works....60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's..50&10@ 50&10&10%
Door or Thumb:

Nos.	0	1	2	3	4
Per doz.	$ .90	1.00	1.08	1.35	1.50

60&10@60%
Drawer Handles....60%
Ring Handles....70%
Roggin's Latches....50&10@60%
Shelf Box Handles....65%
Trunk Handles....60%
Tub Handles....60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock....50%
Bronzed....60&10@66⅔%
Japanned, with Nuts....$1.62
Japanned, with Plate....$1.10
Japanned, without Plate....80c

DOOR PULL—

Bar....60@60&10%
Barn Door....50&10%
Chest and Lifting....60@60&10%
Drawer Pulls....50&10@60%
Plain B. M....60@60&10%
Push Plates, Sargent's List..60@ 70 &10%
Sash Pull Plates....70&10%
Sash Pulls....60&10&10%
Window Pulls....66⅔%

WOOD—

Auger, assorted....₩ gr. $2.25@2.50
Auger, large....₩ gr. $3.00@3.25
Auger, Douglass', Pat. ₩ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33⅓....40%
Auger, Swan's, Pat. ₩ set, No. 3, $1.00; No. 4, $1.25....25&10%
Brad Awl....₩ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted....₩ gr. $1.25@1.40
Firmer Chisel, Apple ass'd ₩ gr. $2.25@2.50
Firmer Chisel, Apple large ₩ gr. $3.75@3.00

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Firmer Chisel, Hickory ass'd ₩ gr. $2.00@3.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $3.00@3.25
Hammer, Hatchet, Axe, Sledge, etc ..... 50&5%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane ..... 40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

ROSS-CUT SAW HANDLES—
Atkins 40%
Boynton' Loop Saw Handles, 50c. 60%
Champion ..... 45@45&10%
Sensible ..... ₩ doz. pr. $5.... 60%

Hangers—
Barn Door, old pattern.... 60&10@60&10&10%
Barn Door, New England. 70@70&10%
Barry, $6.00 ..... 50&10%
Best Anti-Friction. 60&10@60&10&5%
Challenge, Barn Door 50%
Cronk's Roller Bearing, No. 4, $13.00; No. 5, $26.00 ..... 70&10%
Cronk's Steel cov'd Loose Axle. 60&20%
Davis Parlor Door ..... 50@50&5%
Duplex (Wood Track) ..... 60&10&5%
Kidder's ..... 50@50&10%
Lanes Barn Door:
Covered ..... 60&10%
No. 50 ..... 60&5%
New Model ..... 40&10%
Parlor, Standard ..... 40&10%
Standard ..... 60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $18.00, ₩ dozen pairs ..... 60&10%
Nansen Roll-Bearing Hanger. 60&10%
Reed's Steel Arm 50%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c 40%
Richards' Single Track, Steel. 50&10%
Star ..... 50&10&10%
Stearns' Challenge ..... 50@50&5%
Sterling's Impr'd. 60&10@60&10&10%
Stowell Barn Door:
Badger ..... 60&10%
Climax ..... 55&5%
Interstate ..... 60&15%
Magic ..... 50&10%
Matchless Covered ..... 60&10%
Wild West ..... 5[illegible]&5%
Zenith ..... 5[illegible]&5%
Baggage Car Door 33⅓%
Elevator 40%
Railroad ..... 55&5%
Terry Ideal ..... 60&10%
Terry's Modern 60%
Terry's Modern, Covered 60%
Terry's Safety ..... 60&5%
Terry's Solid ..... 60&10&10&5%
Terry's Wrought ..... 60&10&10%
The Boss ..... 60&10@60&10&5%
Universal Anti-Friction 40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00. 60&10&5%
Warner's Pat ..... 30&10&10%

Harness Snaps—
See Snaps.

Hasps and Staples
McKinney's "Perfect," $1.10 ₩ doz ..... 40&10%
Wrought ..... 65&10@65&10&5%

Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point 50%
Auburn Straw 40%
Lightning, from jobbers. $6.00@$6.25
Wadsworth's ..... 40&5@40&5&7½%

Hedge Shears—
Wm. Wilkinson & Sons 50%

Hinges—
WROUGHT IRON HINGES—
Corrugated Strap and T.. 75@75&5%
Rolled Blind Hinges Nos. 22 and 24 50&10@50&10&5%
Rolled Plate, Rolled Raised ..... 70&10@70&10&5%
Plate Hinges "Providence" 6 to 12 in. ₩ lb, 5c. 14 to 36 in. ₩ lb, 4c.
Screw Hook and Strap. 6 to 12 in., ₩ lb..2½c; 14 to 20 in., ₩ lb..2¼c; 22 to 36 in., ₩ lb..2 c
Strap and T..... 75@75&5%

SPRING HINGES—
Acme ..... 30&5%
American 30%
Bommer's 40%
Bardsley's Patent Checking 15%
Chicago 30%
Crown 30%
Champion 60%
Devore's No. 1 ..... ₩ gr. $13.00
Geer's Spring and Blank Butts.. 40%
Gem 30%
Keil's American 30%
Matchless No. 10 ..... 70%
New Idea, No. 1, ₩ gro. $7.50
New Idea, No. 2, ₩ gro. $18.00
Oxford 30%
Rex ..... ₩ gr. $13.00
Royal Japanned 66⅔%
Rubber 66⅔%
Sargent's List 1894:
Bronze Metal ..... 75&10%
Japanned Surface, Single.. 70&10%
Japanned Surface, Double. 60&10%
Mortise 55%
Model ..... 70@70&10&10%
Tuscan Surface, Single 70%
Tuscan Surface, Double 70%
Vigilant ..... 50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894 ..... 30%
Union Mfg. Co 25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $13.00

GATE HINGES—
Automatic ..... ₩ doz $12.50, 50%
Common Sense.. ₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3 ..... 70&10&5%
Long's Self Closing 50%
N. E... ₩ doz $7.80 ..... 60@60&10%
N. E. Reversible ..... ₩ doz $5.60 60@60&10%
N. Y. State.. ₩ doz $4.90.. 60@60&10%
Reed's Latch and Hinges... ₩ doz $13.00, 50%
Seymour's ..... 45&10%
Shepard's Nos. 1, 2, 3, 60&10@60&10&5%
Western, ₩ doz $4.20 ..... 60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3 ..... 60&10%
Mortise Gravity 50%
Nos. 1, 3, 5 ..... 60&10%
Nos. 40 and 50 ..... 80%
Huffer 65%
Parker ..... 75@75&10%
Sargent's Nos. 1, 3, 5, 11, 12, ... 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter ..... 60&10%
Buffalo Gravity Locking, Nos. 1, 3 and 5 ..... 80&10&5%
Champion Gravity Locking, No. 75 ..... 60&10&10%
1868, Old Pat'n, Nos. 1, 3 and 5, 60&10%
Tip Pattern, Nos. 1, 3 and 5, 60&10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 10½ 80%
Niagara Gravity Locking, Nos 1, 3 and 5 ..... 80 ₩ 10%
Noiseless, Nos 50, 60, 65 and 55. 80%
O. S. Lull & Porter ..... 80&10&5%
Pioneer, Nos. 060, 45 and 5½.. 75&5%
Steamboat Gravity Locking, No. 10 ..... 80&10&5%
Stranger's Noiseless 75%
Mortise Gravity 50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.30 ..... 40&10%

Hitching Cords—
Covert Mfg. Co 45%

Hoes—
HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit ₩ doz. $4.00 net
Crucible Cut-Easy.. ₩ doz. $4.50 net
Cotton ..... 80&12½%
Dunlap's Boys', Ladies', Toy 30%
Garden ..... 75&20%
Mortar ..... 75&25%
Iowa Crucible Socket ..... 75&20%
Magic ..... ₩ doz $4.00
Mattock Hoe... .... ₩ doz. $3.75 net
Planter's ..... 80&15%
Texas Cut-Easy ..... ₩ doz. $4.25 net
Warren Hoe ..... 60&10%

EYE—
American Axe & Tool Co 70%
Grub ..... 70&10@75&5%
Lane's:
Crescent Planters Pat ..... 45&5%
Razor Blade, Scovil Pat ..... 30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil ..... 20@30%

Hog Rings and Ringers—
Hill's:
Rings ..... ₩ gr. boxes.. $3.00@3.25
Ringers ..... ₩ doz. 50@55c
Kohlers, Horse Nail, Ringers. ₩ doz. $9.00
Perfect Rings ..... ₩ gro. $7.00@$7.50
Perfect Ringers ..... ₩ doz. 80c

Hollow Ware—
IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware ..... 40&10%
Peerless Enameled-Ware... 70&10%
Crystal Steel-Ware ..... 50&10%
Blue and White-Ware ..... 10&10%
White-Ware ..... 25&10%

STOVE HOLLOW-WARE:—
Ground ..... 60&10&10@70%
Unground ..... 70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans.... 62½@65%
Maslin Kettles,.... 75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co ..... 40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co ..... 40&5%
Reed & Barton ..... 40&5%
Rogers & Brother ..... 40&5%
Simpson, Hall, Miller & Co ..... 40&5%
William Rogers Mfg. Co ..... 40&10%

Hooks—
BUSH—
Jennings & Griffin's ..... 40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list,.. 60&10&10%
Bird Cage, Reading ..... 60@60&10%
Bird Cage, Williamson 50%
Ceiling, Sargent's list ..... 50&10%
Chandelier 70%
Clothes Line, Sargent's list... 50&10%
Coat and Hat, Sargent's list.. 50&10%
Coat and Hat, Reading ..... 60&10%
Coat and Hat, Stowell's 70%
Harness, Sargent's list.... 50@50&10%
Lamp 55%
Picture 75%
Screw Hat 70%
Wardrobe 55%

WROUGHT IRON—
Cotton ..... ₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works 30%
Hammock Hooks, E. C. Stearns, ₩ doz 60c
Picture, T. & S. Mfg. Co 75%
Tassel, T. & S. Mfg. Co ..... 50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise 33⅓%
Wm. Johnson's:
8 in ..... ₩ doz. $2.20 net
10 in ..... ₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat ..... 50&10%
Belt ..... 80@80&10%
Handy Coat and Hat 70%
Steady Ceiling 70%
Wire Coat and Hat, Acme.. 60&10%
Wire Coat and Hat, Gem 70%
Wire Coat and Hat, Standard.... 45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works: Self-Locking Gate and Door Hooks ..... 60&20%
Dunlap's Merchandise 25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass ..... 70&10%
Hooks and Eyes—Mal. Iron 75%
Wm. Johnson's Cotton, Box and Hay 60%
Stowell's:
Clothes Line 70%
Harness 70%
Hotel & School House 70%
Whiffletree ..... ₩ lb 4½c

Horse Nails—
Nos. 6 7 8 9 10
A. C..... 25c 23c 23c 21c 21c. 40&10%
American, all sizes, 9½@10c..... net
Ausable..... 23c 23c 23c 24c 23c. 40&10&5%
Anchor..... 23c 21c 20c 19c 18c..... 40%
C. B. K..... 23c 23c 23c 21c. 21c 40%
Capewell... 19c 18c 17c 16c 16c..10&5%
Champlain.. 23c 23c 23c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 16c 15c 14c. 30&10&5%
Empire Bronzed 10c
Essex..... 23c 23c 23c 24c 23c. 40&10@50%
Lyra... 9½c 9½c 9½c 9½c 9½c., net
Maud S..... 25c 23c 23c 21c. 21c 50&10&5%
Northw't'n. 25c 23c 23c 21c 20c. 25@25&5%
Putnam..... 23c 21c 20c 19c 18c.... 25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan..... 23c 21c 20c 19c 16c..... 25%
Western, 5 to 10d 9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co 45%

Hose, Rubber—
Boston Belting Co.:
"Boston" ..... 50&10&5%
"Imperial" ..... 30&5%
Competition ..... 75@75&10%
Extra ..... 60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para ..... 40&10%
Reliable ..... 50&10%
Staple ..... 60&10%
Standard ..... 70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick.... ₩ gr $9.00 net
Crown ..... net
Dunlap's:
No. 1 ..... $3.50 per doz 20%
No. 20 ..... $12.00 per doz 20%
Gem Ice Shave ..... net
Parker's:
Ice Box Chisel.... ₩ doz. $12.00
Ice Crusher, No. 3, ₩ doz. $3.00
Ice Crusher, No. 2, ₩ doz. $6.00
Ice Crusher, No. 1, ₩ doz. $9.00
Ice Tools ..... ₩ doz. $4.00
Sargent's Ice Awls 55%
Star ..... net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $6.00.. 25%
No. 34 ..... ₩ doz. $15.00. 25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain ..... 15@20%
Spun Brass, plated inside with White Metal ..... 10@15%

Knives—
Arnes':
Bread Knives. ₩ doz. $1.50... 20@25%
Butcher Knives ..... 25@25&10%
Shoe Knives ..... 25@30%
Dunlap Kitchen and Br'd Knives 25%
Foster Bros.' Butcher, &c 40%
Goodell's:
Bread Knives Ass'n list ..... net
Butcher ..... net
Shoe Knives 40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives 50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives.. 25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base 15%
Base, Rubber Tip, 2½ in. Bead ₩ gr ..... $1.25@$1.50
Carriage, Jap ..... ₩ gro. 80c, 60&10%
Door Knobs, Hemacite ..... 50&10%
Door Mineral ..... ₩ doz. 55@60c
Door Por. Jap'd ..... ₩ doz. 65@70c
Door Por. Nickel... ₩ doz.. $1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite ..... 50&10%
Picture, Judd's ..... 50&10&10%
Picture, Sargent's ..... 70&10%
Shutter, Porcelain 70%
Yale & Towne Wood, list Dec. '95. 40%

Lace, Leather—
John C. Hagan & Co.:
Rawhide Side Lace, No. 1 ₩ ft. 18c
Tanned Side Lace ..... ₩ ft. 18c
Cut Lacings, ¼ in, ₩ 100 ft... $1 00
Cut Lacings, 5 16 in., ₩ 100 ft. $1.25
Cut Lacings, ⅜ in, ₩ 100 ft... $1. 0
Cut Lacings, ½ in., ₩ 100 ft... $2.00
Cut Lacings, ⅝ in., ₩ 100 ft... $2.75
Cut Lacings, ¾ in, ₩ 100 ft... $3.25
Discount from list, 60%

Ladles, Melting—
Monroe's Pat ..... ₩ doz $4.00, 40%
P. S. & W ..... 35&10@40%
Reading ..... 50&10%
Sargent's ..... 60@60&10%
Warner's 30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list $30.00
No. 16 Buhl side Lever, ₩ doz. list $7.50
No. 10 Buhl Improved Regular, ₩ doz. list $7.00
No. 200 Buhl Square Top Lift, No. 2, ₩ doz. list $11.00
No. 150 Buhl Dash Reflector, ₩ doz. list $10.50
No. 2 0 Buhl Dash Reflector, No. 2, ₩ doz. list $17.00
Discount ..... 40&5%

Latches—
Cronk's Sliding Door 60%
Lane's Barn Door 40%

Lawn Mowers—
Champion ..... 75&10%
Clipper Improved ..... 50&10&10&5%
Continental ..... 60&10%
Enterprise 40%
Genuine Philadelphia Mowers:
Styles M., S., C., K., T ..... 70&10%
Style A., (all steel) ..... 60&10%
Style E., Low Wheel ..... 60&10%
Style E., High Wheel ..... 70&10%
Drexel, low list 50%
Gold Coins, low list 50%
Great American ..... 70&10%
Imperial ..... 60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel. 75&10%
New Easy ..... 60&10@60&10&10%
New York ..... 60&5%
Pastime:
12 in. 14 in. 16 in.
$6.00 $6.25 $6.50 each net
Pennsylvania ..... 60&10%
Rapid Transit ..... 70&10&10%
Standard ..... 60&5%
Sunbeam ..... 60&10%

Lawn Sprinklers—
Enterprise 25%
Gibbs' Arc ..... ₩ doz. $10.00
Gibbs' Hustler ..... ₩ doz. $5.00

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Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1, No. 2, No. 3,
₩ doz. $12.00 $15.00 $24.00..35%

Lemon Squeezers—

Berger Bros. ₩ doz. 3-in. $1.00; 10-in. $1.40.....20%
Dean's, Nos. 1, ₩ doz. $4.50; 2, $3.35 3, $1.55; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.60
Jennings' Star...₩ doz. $1.90@$2.00
Little Giant.....50@50&5%
Porc. Lined, Iron.....$3.25@$3.50
Porc. Lined, Wood....₩ doz. $6.00 80&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—

Name Door Plate.....50@50&10%
Name Plate.....70%
Number Door Plate.....60@60&10%
Sargent's.....60&10@70%

Levels—

C. E. Jennings & Co.'s:
Hexagon.....25&10%
Iron Bench, new design....25&10%

Lifters—

See Transom Lifters.

Lines—

Cotton and Linen Fish, Draper's.50%
Cotton Chalk, 20 feet.....60&10%
Cotton Trot.....33⅓%
Masons':
Colored Cotton.....40&10%
Flax.....40&10%
No. 0 to 5.....25%
Samson, Cotton, No. 4, $2; No. 4½, $2.50....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro.....25%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $2.25; No. 19, $2.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &C.—

Barnes Mfg Co.....40@40&10%
Branford Lock Co.....net prices
Brooklyn Latches.....50&10%
Champion Night Latches.....40%
Dietz Flat Key.....30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co.....60&10%
Plate.....33⅓%
R. & E. Mfg. Co.....60&10@70%
Reading Hdw. Co.....60@60&10%
Romer's Night Latches.....20&5%
Sargent & Co.....60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch.....35&5%
All other Night Latches.....40%
Yale.....net prices

CABINET—

Barnes Mfg. Co.....40@40&10%
Dietz:
Nos. 22 to 39.....40%
Nos. 41 to 78.....45%
Nos. 87 to 96.....30%
Eagle Lock Co.....45&5%
Charles Parker Co.....45&5%
Romer's.....25%
Stoddard Lock Co.....30@33⅓%
Yale.....45&5%

PADLOCKS—

Acme Bicycle and Satchel per doz. $9.00.....40%
Ames Sword Co.....40%
Barnes Mfg. Co.....50@50&10%
Champion.....40%
A. E. Dietz.....40%
Eagle.....40%
Eureka, Eagle Lock Co.....40&5%
Gem, Corbin's.....40&5%
Romer's Nos. 0 to 1.....40&5%
Scandinavian.....90&40@90&40&10%
Smith & Egge Bicycle.....50%
Wrought Iron.....75@80%
Yale Lock Co.....net prices

TRUNK—

Corbin's.....25%
Eagle.....25%

Mallets—

Sargent's List
Hickory.....50@25&10%
Lignumvitæ.....50@25&10%
Raw-Hide.....40&10%

Mattocks—

Regular list.....70@70&10%

Meat Cutters—

American.....30%

Nos.	1	2	3	4	B	5
Each.	$5	$7	$10	$25	$30	$60

Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00
Dixon's.....₩ doz 33⅓%

Nos.	1	2	3	4
	$14	$17	$19	$30

Enterprise.....25%

Nos.	10	12	22	33	42
Each	$3	$3.50	$4	$6	$15

Hales Pattern ₩ doz.....70@70&5%

Nos.	11	12	13
	$37	$33	$45

Home No. 1..₩ doz $36.....60%
Little Giant.....50&10%

Nos.	305	310	312	320	322
	$35	$43	$44	$72	$68

Miles' Challenge ₩ doz...45@45&10%

Nos.	1	2	3
	$33	$30	$40

Perfection.....net
Woodruff's ₩ doz.....33⅓%

Nos.	100	150
	$15	$18

Meat Juice Extractors—

Enterprise.....25%

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name.....₩ lb..15c
Mystic.....₩ lb..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.), ₩ doz.$12.00

Motors—

COFFEE MILL—

Specialty Novelty Co.....each $5. 0

Nails—

WIRE AND CUT NAILS—

See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....25%
Wire Nails.....25%

PICTURE—

Brass Head, Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list, .40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—

Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Eclipse.....₩ doz. $18.00..25&10&10%
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....₩ doz $18.00, 20%
National.....₩ doz. $24.00, 40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—

Buck Bros.....37½%
Cannon's Diam'd Point ₩ gr. $12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6.30
Hot Pressed, Square, off list...$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.65
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—

Pikes Washita:
Lily White, ₩ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ lb..... .50
No. 1..... .40
No. 2..... .30
Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2⅝ to ⅝ at back, ¼ to 5-16 edge ₩ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¾ to ⅝ ₩ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
3x3, ₩ doz.....$13.00
7x2, " 11 00
3x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x¾ to 1¼, ₩ lb..... .24
" 2x2x½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—

Boston Belting Co.:
"Boston".....60%
"Excelsior" Self-Vulcanizing, per lb 70c.....40%
Boston "Phœnix" Red Sheet, per lb.....50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—

American Packing.....9c@10c ₩ lb
Cotton Packing.....14c@15c ₩ lb
Italian Packing.....12c@14c ₩ lb
Jute.....6c@7c ₩ lb
Russian Packing.....13c@14c ₩ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance.....₩ doz $4.50
Baldwin.....₩ doz 5.00
Bonanza.....each 5.00
Daisy.....₩ doz 3.50
Dandy.....each 7.50
Eureka, 1898.....each 16.00
Family Bay State.....₩ doz 12.00
Favorite.....₩ doz 5.00
Gold Medal.....₩ doz 4.00
Ideal.....₩ doz 4.00
Improved Bay State.₩ ds..$27@30.00
Little Star.....₩ doz 4.00
Monarch.....₩ doz 12.50
New Lightning.....₩ doz 5.50
Oriole.....₩ doz 4.00
Penn.....₩ doz 8.00
Perfection.....₩ doz 4.00
Reading, 72.....₩ doz 4.00
Reading, 78.....₩ doz 7.00
Rocking Table.....₩ doz 5.50
Scott's Pat. Rotary, ₩ doz $15.00, 20%
Turntable.....₩ doz 4.50
Victor.....₩ doz 12.50
Waverly.....₩ doz 3.75
White Mountain.....₩ doz 4.00

POTATO—

Saratoga.....₩ doz 5.50
White Mountain.....₩ doz $4.50

Pencils—

Dixon's:
Carpenters'.....₩ gr. $2.25@7.75
Carpenter, Blue or Red Lead.....₩ gro. 4.0f@7.50
Lead.....₩ gro. 2 13@4.88
Lumber.....₩ gro. 6.87
Mascot, Hexagon.....₩ gro. 8.75
Mascot, Round.....₩ gro. 8.10

Picks—

Railroad or Adze Eye, 5 to 6, $12.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—

Bailey's (Stanley R. & L. Co.) 50&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—

Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....25%
C. E. Jennings & Co., Iron...50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's.....50&10%
Miscellaneous.....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—

Auburn "Thistle"..... Ohio..... Sandusky.....} 30&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & I. J. White.....30&5@25%

Pliers and Nippers—

Button's.....70@70&10%
Carew's Pat. Wire Cutters.....25%
Cronk's:
Button Pattern.....70@70&10%
Fencing Pliers, ₩ doz $12.00...25%
Flat and Round Nose.....33⅓%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $13.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@60 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....20%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....25&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10%
Stanley's.....75&10%
Stanley's Duplex.....25&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....₩ lb 8c
Joseph Dixon's.....₩ gro $5.75, 10%
Gem.....₩ gro $4.50, 10%
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Peppers, Corn—

Round or square,
1 qt., ₩ doz. $ .75; ₩ gr. $6.50
1½ qt. ₩ doz. $ .85; ₩ gr. $8.00 } 10@ 15%
2 qt., ₩ doz. $1.15; ₩ gr. $12.00
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—

Kohler's:
Little Giant, No. 12...₩ doz. $12 00
Hercules, No 25.....₩ doz. $11.00
Invincible, No. 6.....₩ doz. $10.00
Pioneer, No. 714.....₩ doz. $ 9.00
Lock Lever, No. 20...₩ doz. $12.00
Universal, No. 49.....₩ doz. $14.00
New Champion, No. 37 ₩ doz. $ 7.00
Iron Handle, No. 38..₩ doz. $ 5.00
Ryan's.....₩ doz., $20.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Cronk's Heavy Pattern, ₩ doz., $3.50 net
Disston's Combined Pruning Hook and Saw...₩ doz $18.00, 25@25&10%
Disston's Pruning Hook.....₩ doz $12.00, 25@25&10%
Dunlap's Saw and Chisel....₩ doz $3.50, 30%
Henry's Pruning Shears ₩ doz $3.50@$3.75
Kohler's Pruning Shears:
German, No. 46.....₩ doz. $3 50
American, No. 33.....₩ doz. $3.50
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$3.50@3.75
Waters Tree Pruners.....75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $13.00, 25&10%

Pulleys—

Awning.....60@60&10%
Axle.....60&10@60&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@10&60%
Clothes Line, Japanned..60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%

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Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5 in. Wheel, ₩ doz $12.00.....40%
Side, Anti-Friction.....50%
Shade Rack.....45%
Upright.....60&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 398, 3 in. Shallow Well Pump.....$13.00
No. 3, Fig. 398, 3¼ in. Shallow Well Pump.....$15.00
No. 5, Fig. 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14, Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 32, Fig. 528, 3 in Deep Well Pump.....$17.00
No. 58, Fig. 361, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump.....$17.00
No. 70, Fig. 333, 2½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 448, 3 in. Lift Pump.....$10.00
No. 103, Fig. 448, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 225, Fig. 389, Windmill Pump.....$12.50
No. 230, Fig. 403, Windmill Pump.....$13.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 403, Regulator Pump.....$20.00
No. 280 Fig. 464, Imperial Cyclone Pump.....$13.00
No. 265, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 483, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 330, Fig. 492, Bucket Spray Pump.....$5.50
No. 330, Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@5%
Check.....55%
Spring.....50&5%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..35%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 20&2%

Rail—

	Per 100 feet	¼	⅝	¾
Barn Door, Light, In.		$1.40	1.95	2.80

Barn Door, "None Better" No. 1, ₩ foot.....2¾c
Barn Door, "None Better" No. 2, ₩ foot.....3¼c
B. D. for N. E. Hangers:

	Per 100 feet	Small. $1.60	Med. 2.00	Large 2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 2¼c
Common.....₩ foot, 2½c
Double Braced.....₩ foot, 2¾c
Lanes' O. N.T.....₩ 100 ft. $3.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft 2c
Sliding Door, Wr't Brass, 1¼ in. ₩ ft., 35c.....30&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot. 60&10&3½%

Rakes—

Cast Steel, Association goods 75&15%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $3.60
Boss, Garden, 18 teeth, net ₩ doz. $3.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $2.20
Lawn Rake.....₩ doz. $4.75
Kohler's:
Lawn Queen, net ₩ doz. $3.25@$3.40
Lawn Queen, Impr'd, net ₩ doz. $3.35@$3.50
Catch All...net ₩ doz. $3.15@$3.25
Jumbo.....net ₩ doz. $7.00@$9.00
Paragon.....net ₩ doz. $2.85@$3.00
Malleable.....70&10@75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....20%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

HOT AIR—
Ferosteel new list, 1897:
Black Japanned.....40&10%
White Japanned.....30&10%
Bronze-plated.....40%
Nickel plated.....40&10%
Stowell's old list:
Japanned.....30&10%
Nickel-plated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....75&10%
Thousand, in bulk.....75&10&5%
Thousand, in papers.....75&10&5%
Coopers, in bulk.....75&10%
Block, and Carriage, in papers. 75&10%
Hame.....80%
Belt with burrs, tinned or coppered.....75%

Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10& 10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....& doz. 60c net

Rope—

Cotton Rope, Best, ¼ in. and larger.....₩ ℔ 13 @14c
Medium, ¼ in. and larger.....₩ ℔ 10 @12c
Common, ¼ in. and larger.....₩ ℔ 8½@10c
Jute Rope.....₩ ℔ 5½@5½c
Manila:
7-16 in. and larger.....₩ ℔ 6½c
⅜ in.....₩ ℔ 7 c
¼ and 5-16 in.....₩ ℔ 7½c
Hay Rope, Med.....₩ ℔ 6½c
Sisal, ⅜ in.....₩ ℔ 6 c
¼ and 5-16 in.....₩ ℔ 6½c
7-16 in. & larger.....₩ ℔ 5½c
Med. L'th Y'rn.....₩ ℔ 5 c
Hay Rope.....₩ ℔ 5½c

Rules—

Athol, Steel.....33⅓%
Boxwood.....80&10&10&10%
Ivory.....50&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....60&10%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....8½@8½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz. $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¾c

COLD HANDLED—
Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.50
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz. $4 00
No. E 55, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.00
No. E 55, plain polished, size 1, 2 or 3 without handles, ₩ doz. $3.50
No. E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$7.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz. $4.75
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.30
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz. $4.25
No. E 65, plain polished, size 4, with "best" handles.....$8.30
No. E 65, plain polished, size 4, without handles.....$5.80
The "Best" Handles, with Forged Iron Stretchers, ₩ doz.....$3.50
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $33.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 3@3¼c

Safety Lifts—

Burr Mfg. Co., Steel.....50&60%

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@30&5%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@9c
Common Russia Sash. ₩ ℔ 13½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....24c
"Samson" Braided White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 33c
"Samson" Braided Linen, ₩ ℔ 56c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White, ₩ ℔ 50c. 35@40%
B Quality, Drab, ₩ ℔ 35c. 15@15&7½%
B Quality, White ₩ ℔ 30c. 15@15&7½%
White Cotton Braided. ₩ ℔ 21c@23c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....70%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze, Barnes Mfg. Co...60%
Elting's Ventilating.....40@70%
Fitch's.....70&10%
Gale's Automatic, List, Nov., '97.65%
Hammond's Window Springs, A.....50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50@50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50@50&10%
Cross Cut.....40%
Gang.....50@50&10%
Hand, Panel and Rip.....40&10%
Wood.....40&10%
Disston's:
Circular.....50@50&10%
Cross Cuts.....45%
Gang.....50@50&10%
Panel, Hand & Rip.....35%
Haines' Needle Point.....40%
C. E. Jennings & Co.'s:
Butcher.....30%
Hand Panel, Rip and other Saws 35%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....35&10%
Richardson:
Circular and Mill.....50@50&10%
X Cuts.....45&10%
Hand-saws.....35&10%
Star, Butcher.....35%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—
Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....35%

Saw Frames—

C. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro..$8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets. ₩ doz.....$6.00
Excelsior Saw Tools ₩ doz....$6.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....20%
Spring Hammer.....30&5%
Disston's Star.....25@25&10%
Hart's Pat. Lever.....20%
Kohler's:
"Giant Royal".....₩ doz. $9.00
"Royal".....₩ doz $6.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&20%
Cross-cuts Nos. 3 and 4, $22.00; No. 5, $31.00.....40&20%
Richardson's.....25%
Seymour Smith & Son, Hammer, ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....25%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@$18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$2.00@$2.10
Striped.....$2.15@$2.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '93.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....₩ doz., $3.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@60&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

DOORS—
Phillips:
Empire Fancy.....50%
Fancy Pine.....40%
Painted.....60@60&5%
Stained.....60&5%
Standard Oil.....50&10%

WINDOW—
Phillips:
Bonanza Screens.....60&10%
Flyer.....60&10%
Perfection Screens.....60&10%
Window Screen Frames....60&10%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screw Drivers—

Brace Screw-Drivers.....25&10&5%
Buck Bros.....30%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....50@50&10
Pat. Excelsior.....5½&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $12.50%
Howard-Allard.....50&10&10%
C. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
135 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
142 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@50&10%
Screw-Driver Bits...₩ doz., 50@75c
Screw-Driver Bits, Parr's₩ gro.$6.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....25%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C.T. Williamson Wire Novelty Co.40%

Screws—

WOOD SCREWS—
Brass, Flat Head.....87½&10%
Brass, Round Head.....85%
Bronze, Flat Head.....85&10%
Bronze, Round Head.....85%
Copper, Flat Head.....65%
Copper, Round Head.....60%
Dowel Screws.....85%
Drive Screws, Rogers'.....90%
Iron, Bright Flat Head.....87½&10%
Iron, Br't R'd & Oval Head.....85%

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Iron, Forged Flat Head.....87½&10%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronse, Flat Head.....60%
Phosphor Bronse, Round Head..55%
Side Knob Screws..... 8 %
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—
List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....60%

COACH, LAG AND HAND RAIL—
Coach. List, Feb. 14, 1895.....82½%
Hand Rail.....82½%
Lag Screws. List Jan. 30, 1895. 80&10&5@85%

BENCH, HAND, ETC.—
Bench, Iron, ₩ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech. ₩ doz $3.00@3.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....60&10%

Scroll Saws—
Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....35%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....35%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—
Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@60&10&5%

Seeders—
Raisin, Enterprise.....35%

Shaft Couplings—
Bradley's:
Buggy, No. 8, ₩ Set.....$3.25
Surrey, No. 9, ₩ Set..... $3.60

Shears—
Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....50&20%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trim'rs. ₩ doz.$3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc.60&10&10@70&5%
Tailor's Shears..... 40@40&5%
Tinners' Snips.....40@10&5%
Pruning. See Pr'ning H'ks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....50&10%
Tin Snips.....45%

Sheaves—
SLIDING DOOR—
Corbin's list.....60&10&2%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1882.50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&2%

SLIDING SHUTTER—
Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—
HORSE—
Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb's..$3.15@$3.40
Gibbs' Rubber, Pat.....₩ set, $1.50
Perkins Steel Side Weight Rind $3.15@$3.40
Perkins Improved Snow.....₩ ℔ 4c
W. & B. Rubber Pad....₩ set, $3.50

MULE—
Add 50c ₩ keg to above prices.

OX, WROUGHT—
Ton lots.....₩ ℔ 9c
1000 ℔ lots.....₩ ℔ 9½c
500 ℔ lots.....₩ ℔ 10c

Shot—
See Ammunition.

Shovels and Spades—
O. Ames & Sons:
C. S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Snovels and Tongs—
Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—
Hunters' Genuine, ₩ gross, $10@11.50

Sign Letters, Figures, &c.—
Aluminum S. & N. Co.:
Sign Letters and Figures.....60%
Door Plates.....60%
Trade Checks.....40%

Skate Sharpeners—
Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—
Enterprise.....35%
Enterprise Mfg. Co.....35%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro. $20.00@$27.00
Kraut Cutters.....50@50&10%
Woodrough & McFarlin.....40%

Slicers—
Vegetable, Enterprise.....25%

Snaps, Harness, &c.
Anchor (T. & S. Mfg. Co).....65%
Cookeyes.....70&10%
Covert Mfg. Co.....45&2@50%
Fitch's:
Bristol.....40&10%
Champion.....40&10%
Clipper.....10&10&5%
Empire.....10&5%
National.....50&5%
Victor.....60&5%
German, new list .40&10@40&10&10%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%
Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel..... 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—
Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33⅓%
Wood.....₩ doz. 25&10%

Spoons and Forks—
TINNED IRON—
Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33⅓&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—
4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.....Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros.40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—
Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&6%
22% Rogers' Nickel Silver....50&6%
Rogers' Silver Metal.....50&10&6%

Springs—
See Door Springs.

Squares—
Disston's Try Square and T Bevels. 60&10%
Starrett's Micrometer Caliper Squares.....25%
Try Square and T Bevels....60&10 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } 75&10@75&10&10%
Steel and Iron.. }

Stair Rods—
Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—
Barbed Blind—⅛, ⅝, and ¾ inch, ₩ ℔.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—
BICYCLE—
Holroyd & Co.....35%

BLACKSMITH'S—
Butterfield's.....35@40%
Gardner.....33⅓&10%
Holroyd & Co.....40@50%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%

PIPE MAKERS—
Holroyd & Co.....75&10@80%

Stones—
See Oilstones.

Stops—
See Bench Stops.

Stove Polish—
See Polish, Stove.

Sweepers—
See Carpet Sweepers.

Tackle Blocks—
See Blocks.

Tacks, Brads, &c.—
List March, 25, '95.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
American, Tinned...90&20@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....90@90&10%
Basket Nails.....80&10%
Bill Posters' and Railroad Tacks:
S. S.....90&10%
Brush Tacks and Nails.....75&15%
Chair Nails.....80&10%
Cigar Box Nails.....80%
Common and Patent Brads.....80%
Finishing Nails.....85%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&2½%
Hungarian Nails, Steel.....80&20%
Lace Tacks.....
S. S.....90&20%
Looking Glass Tacks.....60%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Steel, Black.....80&10%
Steel, Tinned.....85%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10&5%

MISCELLANEOUS—
Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2.00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks. ₩ gr. $4.00
Dble. Point.90&10&10&10&10&10&10%
Hammer Carpet Tacks...₩ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓&& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks.66⅔&33⅓&& 10&2%

Tack Pullers—
Columbia, No. 1, per doz., net.....$1
" " 2, " " 1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—
American.....40&10@50%
Chestermans.....25&2½&5%
Keuffel & Esser Co, New list, 1898: Steel and Metallic.....35%
Lufkin's Steel and metallic..30&10%

Taps—
American Screw Co.
Machine Screw.....70%
Holroyd & Co.'s:
Blacksmiths.....60@65&5%
Machine Screw.....70&10@75%
Machinists' Hand...60@60&10&10%
Pipe.....85@85&10&5%

Telephones—
Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated—
Harrington & King Perforating Co.: IC 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.30
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—
Shears and Snips (P. S. & W.).20&2%
Snips, J. Mallinson & Co.....33⅓%
Snips—"Clauss".....50%

Tinware—
Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—
National Specialty Co.....40%

Trammel Points—
Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33⅓%
Prentiss'.....20@25%

Tracks, &c.—
F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb., Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 433, ₩ doz.....$1.65
D. H. Fork, Steel Regular, e'ch .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps, ₩ ft..... .09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz.$1.75
Floor Hooks, ¾ in. ₩ doz. .65
Floor Pulley, Wood Sheave, Fig. 436, ₩ doz.....$2.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz.$2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes). $12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 424, ₩ doz.. .....$2.25
Rev. Car., Double Steel Track $2.50
Rev. Car., Wood Track.....$2.25
Rope Hitch. ₩ doz.....$1.75
Single rail Car, Single Steel T.$2.50
Single Rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—
Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 50@ 0&10%
Crescent.....70@70 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 303 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....80&10%
Lever.....70@70&10%

Traps—
GAME—
Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—
Enterprise Mfg. Co., Mole.....15%
Erie Rat.....40@40&10%
Household.....₩ gr $10.00
Hotchkiss:
Metallic Mouse.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross. $12.50
Mouse, Bonanza.....₩ doz 90c@$1.00
Mouse, Catch-'em-Alive ₩ doz $3.50.15%
Mouse, Delusion..... 40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire. ₩ doz $1.50. 10%
Mouse, Wood, Choker, ₩ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro. $13.50; No. 2 ₩ gro., $15.00

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Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ dos.....$11.00
Specialty Novelty Co:
Snap Shot, 2-Hole....₩ gro., $4.50
Snap Shot, 4-Hole....₩ gro., $8.50

FLY-

Balloon, ₩ dos $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....30%
Disston's:
Brick.....25@35&10%
Plastering.....35@25&10%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co. 25%

Ventilators—

CHIMNEY—

Pancoast's Double Deflector.70&10%

WINDOW—

Pancoast's "Common Sense," ₩ doz. $9.00

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator 50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....50@50&5%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action .....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....30%
Parker's.....20@25%
Oval Slide.. .....50&10%
Victor..... .....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....40%
Stephens'.....25@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 23..... .....33⅓%
Wentworth's..... .....35@40%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy..... .....60&20%
Lane's Steel 30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Weed Diggers—

"Pastime".....₩ doz. $1.75 net

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's..... .....25&10%

Window Mirrors—

Bayer & Co.'s..... ₩ doz. $24.00 net

Window Stop Adjusters—

Taplin's "Perfection".....50%

Wire and Wire Goods—

Brass Wire.....35%
Bright Wire Goods, Standard list 85&10&10@90%
Cast Steel Wire.....50%
Copper Wire.....45%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18...80&10@80&10&5%
Cop'd, Nos. 0 to 18.....80@80&10%
Galv., Nos. 0 to 18.....80@80&10%
Tin'd, Tinned list Nos. 0 to 18.... 75&10@80%
Picture Wire.....New list 85&10%
Steel Music Wire, Nos. 12 to 30, Imported, ₩ lb.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ lb.....4½c
Wire Clothes Lines, see Lines.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft.,$1.10@$1.20
Steel Bolting Wire Cloth.....50@55

Wire Rope—

List.
Cast-steel.....30&2½&2% cash
Iron.....30&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....35%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Agricultural.....80@80&10%
Aiken's Pocket (Bright)..$2 00@3.20
Alligator.....60@60&10%
American Adjustable.....40@40&10%
Armstrong's 40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....80&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's..... 30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....15@15&10%
Standard Brace.....15@15&10%
Coes':
Genuine..... ....40&10&5&5&3%
"Mechanics'".....40&10&10 &5&5&3%
Coes' Pattern Wrought.....80&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe 50%
Lamson & Sessions':
Engineers'..... .....60@60&10%
Standard..... .....70&10%
Lowell:
Lag Screw.....35%
Ratchet..... .....33⅓%
Socket Bridge,.....35%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.... .....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut..... ...40%
Whitman & Barnes:
Acme ....60@60&5%
All Steel Pipe.....50&10@60%
Always Ready.....35@40&10
Bull Dog.....60&10%
Diamond Cycle.....₩ doz $2.00
Drop Forged Engineers.35@40&10%
Hercules. .....70&10@75%
Improved Knife Handle Pipe 60@60&5%
Machinists' Knife Handle.50&10 @60&10&7½%
Regular.....80&5@ 0&10&5%
J. H. Williams 35%
Yankee.....45%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 25
Colby Wringer Co., list May 1, 1894,
Lovell Mfg. Co., list July 2, 1894...25
National Wringer & Mfg. Co., list Jan. 1, 1895.....25
Peerless Mfg. Co., list Feb., 1893...25
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....44c
Linseed, City, Boiled, in barrels ₩ gallon.....46c
Out of Town on Spot..₩ gal.....44c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 39@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ lb.....5c
White Lead, American, in Oil, ₩ lb.....5½@6c
White Lead, Foreign, in Oil, ₩ lb 8@8½c
Litharge, Kegs, ₩ lb.....5½c
Zinc, American, Dry, ₩ lb....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1¾@2¼

Spirits Turpentine—

In regular bbls.....34½@—c
In machine bbls.....35@—c

Dry Colors—

Blue, Chinese	₩ lb	37	@40
Blue, Prussian	₩ lb	30	@35
Blue, Ultramarine	₩ lb	8	@25
Sienna, Italian, burnt & powd red	₩ lb	3½@5	c
Sienna, Italian, raw & powdered	₩ lb	3	@4½c
Umber, Turkey, burnt	₩ lb	2½@3½c	
Umber, Turkey, raw	₩ lb	2½@3	c
Green, Chrome, Common	₩ lb	5	@12 c
Green, Paris, in bulk	₩ lb	11½@12½c	
Indian Red, American	₩ lb	3	@ 8 c
Indian Red, English	₩ lb	4½@8	

Colors in Oil—

Black Coach Japan	₩ lb	.18½@20	
Black Coach Japan, in Oil	₩ lb	13	@18 c
Black Drop	₩ lb	7	@10 c
Black Lampblack	₩ lb	20	@23 c
Black Lampblack, common	₩ lb	7	@15 c
Blue, Chinese	₩ lb	35	@40 c
Blue, Prussian	₩ lb	20	@40 c
Blue, Ultramarine	₩ lb	12	@18 c
Brown, Sienna, bur't	₩ lb	8	@12 c
Brown, Sienna, raw	₩ lb	8	@12 c
Umber, burnt	₩ lb	7	@10 c
Umber raw	₩ lb	7	@10 c
Brown, Vandyke	₩ lb	7	@12 c

ALASKA SOLDERING IRON HANDLE



. . . ALWAYS COLD.

Sold by all Jobbers in Hardware or Plumbing.

Made only by . . . .

TROY NICKEL WORKS,
ALBANY, N. Y.

FITS ANY IRON.
Want to see one? Send us 25c. We will mail you one.

"WE GET RESULTS."

New York Cycle Supply Co., New York. [*Bicycle Supplies*]: HARDWARE is all right as an advertising medium. We get results from it.

"HAVE FOUND IT SATISFACTORY."

The Ideal Mfg. Co., New Haven, Conn. [*Reloading Tools*]: We recognize your medium from time to time, and have found it satisfactory.

"READS ADS. AND ALL."

Fred. A. Welles, Milwaukee, Wis.: I like your paper first rate, and I read the advertisements as well as the rest.

"SATISFIED WITH 'HARDWARE.'"

Schoverling, Daly & Gales, New York. [*Bicycles, Guns, etc.*]: We have every reason to be satisfied with our advertising in HARDWARE.

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THE POPULARITY

Of our premium list, evidenced by the eagerness with which new subscribers are availing themselves of the opportunities offered, has compelled us to extend the time limit. We will therefore continue this offer until further notice to **NEW 1898 SUBSCRIBERS.**

ALL THE NEWS. **HARDWARE** HARDWARE EXCLUSIVELY.

Needs no introduction to the Hardwareman. He already knows what a valuable adjunct to his business this semi-monthly visitor is, with its reliable "Prices Current," its "Market Reviews" and its general news of interest to the Hardware trade.

FOR $1.00 We will send "**HARDWARE**" for one year, and ANY **ONE** of the following articles:



A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.

Huebsch's Year Book.

A 365-page Cloth Bound Diary—one page for each day in the year—4½x9 inches, bound in flexible cloth covers. Invaluable to merchants, manufacturers, bookkeepers, clerks, etc.

Indexed Coupon Books

representing one hundred dollars—to enable you to put your business on a cash basis—do away with pass books——to prevent bookkeeping errors. No disputes over accounts—no delinquent debtors or bad accounts. Used throughout the country now instead of credit system.



A numbering stamp, which will number from 1 to 999,999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

FOR $1.25 We will send "**HARDWARE**" for one year and your choice of the following six premiums:

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. Made by one of the oldest fountain pen houses in America, and fully guaranteed. . . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. Huebsch's Year Book . . . . (large size), 6x9 inches, bound in flexible cloth, made to last. IT IS YOUR BUSINESS MEMORY, and will not fail you.

4. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters. If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

5. Half Dozen Photographs. . . . . Send us any photograph, with your name and address written plainly on the back, and we will return it to you together with six medallion copies of the original, mounted on celluloid, with a wire stand. We guarantee the medallions to be as good as the original. . . . .

6. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint, printed headings. This practical Price Book is in almost universal use. . . . . .

Address all communications to

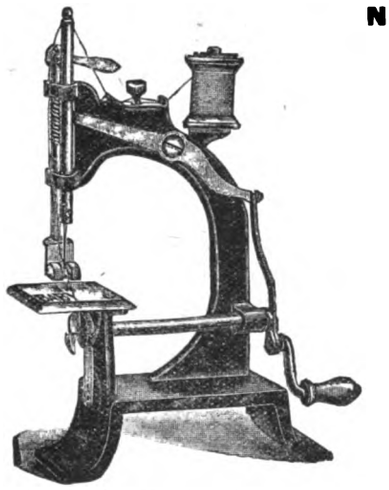
HARDWARE PUBLISHING CO., No 143 CHAMBERS STREET, NEW YORK CITY.

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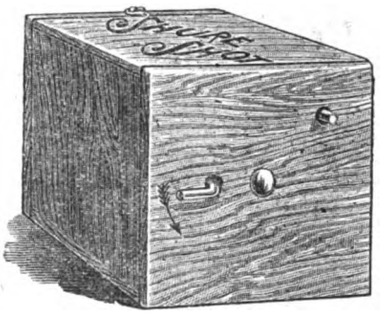
You Live

In hopes of always securing the greatest "helps" to your business. *"HARDWARE"* is a "help." It helps the dealer to buy economically, and helps the manufacturer to sell extensively. *"HARDWARE"* for one year, and any one of the following attractive premiums sent post paid for ***$1.50.*** This offer applies to

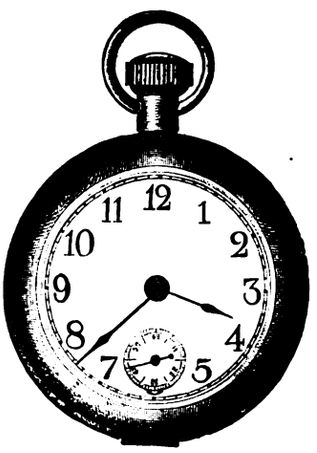
NEW 1898 SUBSCRIBERS ONLY.



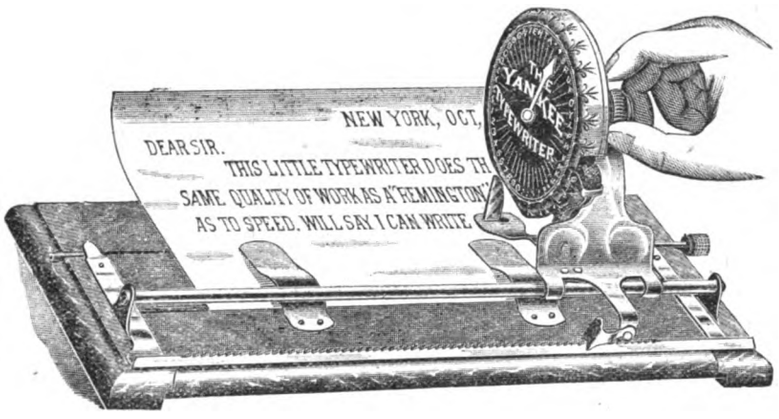
A perfect Sewing Machine. "The Baby." It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



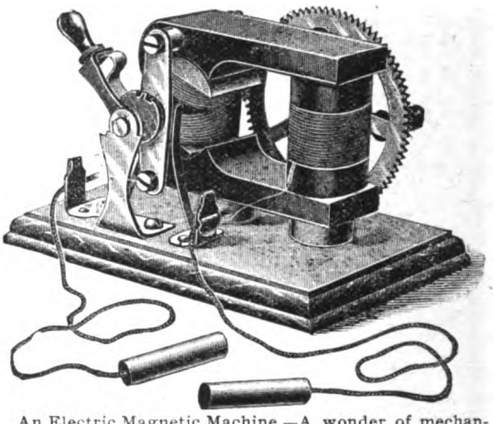
Just think—a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with higher-priced ones of which it possesses the best features, including an instantaneous shutter, adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewriter.—Will write 15 to 30 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine.—A wonder of mechanical perfection. Supersedes the old-style medical batteries, and gives a stronger current without the expense of renewals. It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know, and we'll put it there. The first column shows the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.**

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
ART AMATEUR,	$4.00	$4.00
ART INTERCHANGE,	4.00	4.00
ATLANTIC MONTHLY,	4.00	4.00
BOOK BUYER,	1.00	1.50
CENTURY MAGAZINE,	4.00	4.25
CHAUTAUQUAN,	2.00	2.50
CHRISTIAN HERALD,	1.50	1.75
COSMOPOLITAN,	1.00	1.50
CURRENT LITERATURE,	3.00	3.25
DEMOREST'S FAMILY MAGAZINE,	1.00	1.50
ELECTRICAL WORLD,	3 00	3 25
FOREST AND STREAM,	4.00	New 4 00 Ren. 4.75
FORUM,	3.00	3.25
FRANK LESLIE'S ILLUS. NEWSPAPER,	4.00	4.00
GODEY'S MAGAZINE,	1 00	1.50
GOOD HOUSEKEEPING,	2.00	2.50
HARPER'R BAZAR,	4.00	4.00
HARPER'S MAGAZINE,	4.00	4.00
HARPER'S WEEKLY,	4.00	4.00
HARPER'S ROUND TABLE,	1.00	1.50
ILLUSTRATED AMERICAN,	4.00	4.00

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
INDEPENDENT,	$3.00	$3.25
JUDGE,	5.00	5.00
LADIES, HOME JOURNAL,	1.00	1.50
LIFE,	5.00	5.00
LIPPINCOTT'S MAGAZINE,	3 00	3 00
McCLURE'S MAGAZINE,	1.00	1.50
MUNSEY'S MAGAZINE,	1.00	1.50
NATION,	3.00	3.50
OUTING,	3.00	3.00
OUTLOOK,	3.00	3.50
POPULAR SCIENCE,	2.00	2.25
PUBLIC OPINION,	2.50	2.75
PUCK,	5.00	5.00
REVIEW OF REVIEWS,	2 50	2.75
RURAL NEW YORKER,	1 00	1.50
ST NICHOLAS,	3 00	3.25
SCIENTIFIC AMERICAN,	3.00	3.25
SCRIBNER'S MAGAZINE,	3.00	3.25
SHORT STORIES,	2.50	2.75
TRUTH,	2 50	2.75
YOUTH'S COMPANION	1.75	New 2.00 Ren. 2.25

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OLD SUBSCRIBERS AND NEW

May take advantage of the following liberal offers:

1. "American Hardware Trades Reference Book," published by Thomas Publishing Co., with "HARDWARE" for one year, will be sent on receipt of **$1:50.** Those who are already paid subscribers to "HARDWARE" will receive the book, on sending **50c.** This book is a complete directory of the manufacturers of Hardware in the United States. Each manufacturer is classified under the name of every article he makes. The financial rating is given in each case; 8000 Names; 25,000 Headings.

---

2. "Ladd's Discount Book," with "HARDWARE" for one year, for **$3.00** Single Index, and **$4.00** Double Index. Present subscribers will be credited for one year in advance. If you have to calculate discount this comprehensive work will save many times its price in time, trouble and mental strain. Its comprehensive character may be realized from the fact that it contains nearly 200 pages of positively accurate tables or more than 120,000 computations giving at a glance the net of any sum at all discounts from 1 per cent. to 95 per cent. together with a great range of combinations.

---

3. "American Hardware Store," with "HARDWARE" for one year, for **$3.00.** The "AMERICAN HARDWARE STORE," containing 450 pages and 500 illustrations, is an exhaustive treatise on the most approved methods used by the successful merchants of this country to arrange, display and sell Hardware. It is edited by R. R. Williams, editor of the *Iron Age*, and published by the David Williams Co., of this city, at $3.00. By a special arrangement, we are enabled to combine "HARDWARE" with the book at the same price. Present subscribers will be credited for a year, in advance of their present subscription.

Fill out Order, and address as below:

ORDER BLANK.

HARDWARE PUBLISHING CO.,

NO. 143 CHAMBERS STREET, NEW YORK CITY

Gentlemen: Inclosed please find _____ dollar and _____ cents for which please send me postpaid "HARDWARE" for one year and _____ offered as a premium.

Name _____

Address _____

N. B.—All premium offers, except where otherwise specified, apply to **NEW SUBSCRIBERS ONLY.**

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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS. BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, Etc.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

Main Office and Works, No. 240 North Union St., Chicago, Ill., U. S. A. Eastern Office, No. 284 Pearl St., New York.

PALMER'S HAMMOCKS STILL LEAD.

See our catalogue for special assortment of bales for small buyers. . . .

Again ahead of the world in variety of colors, styles and sizes, in our elegant line of . . .

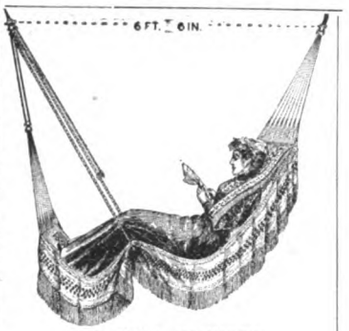
Perfection and Arawanna Hammocks. . . . . .

Infringers are being prosecuted.

The Latest Leader

Palmer's New Utopia Hammocks. . . .

Superior to all others.



THE NEW HAMMOCK, PALMER'S UTOPIA.
Position easily varied, ranging from sitting to sleeping.



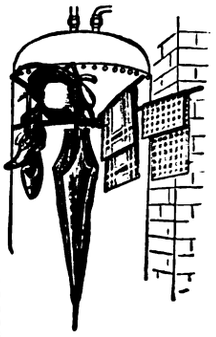
SEND FOR 1898 CATALOGUE.

MANUFACTURED BY . . . . . .

I. E. PALMER, Middletown, Conn., U. S. A.

NEW YORK OFFICE, 62 WHITE STREET.

Also manufacturer of . . . Canopies, Mosquito Netting, Crinoline Dress Lining, Window Screen Cloth, School Bags, etc.



THE **JEWEL BOILER DRYING RACK**

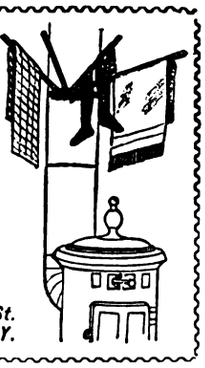
Fits any Size Range Boiler or Stovepipe.

Retails for 35 cents.

TRADE PRICE, - $24. PER GROSS.

To introduce, will accept orders for 1 dozen or more at the gross price. Satisfaction guaranteed. . . . .

Gem Mfg. Co., *167 Chambers St. NEW YORK, N. Y.*



PLEASED with RESULTS.

John N. Hager, Fort Atkinson, Wis. [*Fork, Shovel, Rake and Hoe Brackets*]: Am well pleased with the results of my advertisement in HARDWARE.

5,000

Dealers in the United States & Canada sell Houchin's Specialties.

If vou do not, send for illustrated Price List.

T. W. HOUCHIN,
67-69 Park Pl.,
New York, U. S. A.

HOUCHIN'S

POPULAR SPECIALTIES

Consist of Wax Tapers and Torches for Lighting Gas, Alcohol Stoves, 20 Styles, Gas Heaters and curling Iron Heaters, & Insect Powder Guns and Bellows, &c

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HARDWARE BUYERS' DIRECTORY.

CLASSIFIED INDEX TO ADVERTISERS.

Agricultural Implements.
John H. Graham & Co., New York.
F E Kohler & Co , Canton, Ohio.
F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., New York.

Anti-Friction Metal.
Magnolia Metal Co., New York.

Anti-Rattler.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Anvils.
Alfred Field & Co., New York.
Van Wagoner & Williams Hardware Co., New York and Cleveland, Ohio.

Apple Parers.
Goodell Company, Antrim, N. H.
Reading Hardware Co., Reading, Pa.

Architectural Iron Works.
Berlin Iron Bridge Co., East Berlin, Conn.

Arms and Ammunition.
E. I. DuPont, De Nemours & Co., Wilmington, Del.
Alfred Field & Co., New York.
Hartley & Graham, New York.
Laflin & Rand Powder Co., New York.
Remington Arms Co., New York.
Union Metallic Cartridge Co., Bridgeport Conn.
U. S. Smokeless Powder Co., Batavia, N. Y.
Waterbury Brass Co., New York.

Art Hardware.
Reading Hardware Co., Reading, Pa.

Babbitt Metal.
Bruce & Cook, New York.
Magnolia Metal Co., New York.

Barb Wire.
Fuller Bros. & Co., New York.

Basin Plugs.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Batteries.
Ohio Electric Works, Cleveland, Ohio.

Bearing Metal.
Magnolia Metal Co., New York.

Bells.
Bristol Bell Co., Bristol, Conn.
J. Doughty & Co., Philadelphia.
Dunbar Bros., Bristol, Conn.
John H. Graham & Co., New York.
N. N. Hill Brass Co., East Hampton, Conn.
New Departure Bell Co., Bristol, Conn.
Ohio Electric Works, Cleveland, Ohio.

Bells, Electric.
See Electric Bells and Supplies.

Belt Dressing.
Jos. Dixon Crucible Co., Jersey City, N. J.

Belting.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting Co., Newark N. J.
See Rubber Belting.

Bench Stops.
Charles Morrill, New York.

Bicycle Stands.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.

Bicycles and Bicycle Sundries.
Aluminum Sign & Novelty Co., Columbus, Ohio
Bristol Bell Co., Bristol, Conn.
Cushman & Denison, New York.
J. D ughty & Co., Philadelphia.
Dunbar Bros., Bristol, Conn.
John H. Graham & Co. New York.
N. N. Hill Brass Co., East Hampton, Conn.
Lane Bros., Poughkeepsie, N. Y.
M. Leiner, New York.
Edward Miller & Co., Meriden, Conn.
Miller & Van Winkle, Brooklyn, N. Y.
New Departure Bell Co., Bristol, Conn.
New York Belting & Packing Co., Ltd., New York.
Geo. W. Nock, Philadelphia.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Pope Tube Co., Hartford, Ct.
Remington Arms Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Starke's & Nutting Co., New York.
Speirs Mfg. Co., Worcester, Mass.
Chas J Stebbins, New York.
E. K. Tryon, Jr., & Co., Philadelphia.
Union Heater Supply Co., Detroit, Mich.

Bicycle Step Ladders.
Bicycle Step Ladder Co. Chicago.

Blind Hinges.
Stanley Works, New Britain, Ct.

Bits.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.

Blacksmith's Outfits.
Holroyd & Co., Waterford, N. Y.

Blocks, Tackle.
See Tackle Blocks.

Bolts.
Brass Goods Mfg Co , Brooklyn, N. Y.
Bruce & Cook, New York.
Franklin S. Miles, Philadelphia.
Union Nut & Bolt Co., New York.

Bone Black.
Geo. F. Taylor's Sons, New York.

Box Straps.
Quincy Hdwe. Mfg. Co., Quincy, Ill.

Braces.
Lancaster Machine & Knif Works, Lancaster, N. Y.

Brackets.
Atlas Mfg. Co., New Haven, Conn.
John N. Heger, Ft. Atkinson, Wis.
W. C. Heller & Co., Montclair, N. J.

Brass & Composition Castings.
C. H. Angus, Albany, N. Y.
Magnolia Metal Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Brass, Manufacturers.
Waterbury Brass Co., New York

Brass, Perforated.
Harrington & King Perforating Co., Chicago.

Brazing Machines.
Union Heater Supply Co., Detroit, Mich.

Bridges.
Berlin Iron Bridge Co., East Berlin, Conn.

Brushes.
Buchel Brush Novelty Co., New Orleans, La.

Buffing Wheels.
Divine Bros., Utica, N. Y.

Buggy Canopies.
Sprague Umbrella Co., Norwalk, Ohio.

Builders' Hardware.
Norwalk Lock Co., South Norwalk, Conn.
Russell & Erwin Mfg. Co., New York.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.

Bungs.
John Sommer's Sons, Newark, N.J.

Butcher Knives, Tools and Steels.
John Chatillon & Sons, New York.

Butts.
Bommer Bros., Brooklyn, N. Y.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Stanley Works, New Britain, Ct.

Butts, Spring.
Bommer Bros., Brooklyn, N. Y.

Calipers.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
J. T. Slocomb & Co., Providence, R. I.

Can Openers.
F. J. Hall Co., Wallingford, Conn.

Canopies and Fixtures.
I. E. Palmer, Middletown, Conn.

Car Sealers.
Charles Morrill, New York

Carpet Sweepers.
Bissell Carpet Sweeper Co., Grand Rapids, Mich.: New York.
Goshen Sweeper Co., Grand Rapids, Mich.

Carpet Stretchers.
R. W Montross, Galien, Mich.

Carving Tools.
Hammacher, Schlemmer & Co., New York.

Carriers.
F. E. Myers & Bro., Ashland, Ohio.

Casters.
Allerton, Clarke Co., New York.

Castings.
Aluminum Sign & Novelty Co., Columbus, Ohio.
C. H. Angus, Albany, N. Y.

Cellar Grates.
Hess, Snyder & Co., Massillon, O.

Cement.
New York Belting & Packing Co., Ltd., New York.
P. H. Starr, Norwalk, Ohio.

Chains.
Bridgeport Chain Co., Bridgeport, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Cherry Stoners.
Enterprise Mfg. Co., Philadelphia.
Goodell Co., Antrim, N. H.

Chimney Ventilators.
Hess, Snyder & Co., Massillon, O.

Chucks.
Detroit Twist Drill Co., Detroit, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Clay Screens.
Harrington & King Perforating Co., Chicago.

Clamps.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Cleavers.
John Chatillon & Sons, New York.
Lancaster Machine & Knife Wks., Lancaster, N. Y.

Clippers, Horse and Barbers'.
American Shearer Mfg. Co., Nashua, N. H.
Chicago Flexible Shaft Co., Chicago, Ill.
Coates Clipper Manufacturing Co. Worcester, Mass.
Alfred Field & Co., New York.
John H. Graham & Co., New York.

Clock Springs.
Wallace Barnes, Bristol, Conn.

Closet Pulls.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Coal Screens.
Edward Darby & Sons, Phila., Pa.
Harrington & King Perforating Co., Chicago.

Coat, Hat and Coiling Hooks.
Atlas Mfg. Co., New Haven, Conn.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Copper.
Bruce & Cook, New York.

Copper, Perforated.
Harrington & King Perforating Co., Chicago.

Cordage and Twines.
Samson Cordage Works, Boston.

Cork Pullers.
Enterprise Mfg. Co., Philadelphia.

Corkscrews.
Erie Specialty Co., Erie, Pa.
Alfred Field & Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Counterfeit Detectors.
Pelouse Scale & Mfg. Co., Chicago.

Crayon.
Jos. Dixon Crucible Co., Jersey City, N. J.

Cresting.
E. T. Barnum, Detroit, Mich.

Curled Hair.
Baeder, Adamson & Co., N. Y., Phila., Boston and Chicago.

Curry Combs.
John H Graham & Co., New York.
F E. Kohler & Co., Canton, Ohio.
New York Stamping Co., Brooklyn, N. Y.
Surplus, Dunn & Co., New York.

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Cutlery.

John Chatillon & Sons, New York.
Alfred Field & Co., New York.
Goodell Co , Antrim, N. H.
Hammacher, Schlemmer & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Patterson, Harral & Gray, N. Y.
Jos. Rodgers & Sons, Sheffield, England.
Wm. Schollhorn Co., New Haven, Conn.
Sickels & Nutting Co., New York.
Tuck Mfg Co., Brockton, Mass.
J. Wiss & Sons, Newark, N. J.

Cutters, Fodder.

W. R. Harrison & Co., Massillon, O.
Silver Mfg. Co., Salem, Ohio.

Dampers.

Arcade Mfg. Co., Freeport, Ill.
Troy Nickel Works, Albany, N. Y

Dies.

Ferracute Machine Co. Bridgeton, N. J.
F. E. Myers & Bro., Ashland, Ohio.
E. S. Stiles Press Co. Watertown, N. Y.

Display Brackets.

John N. Hager, Ft Atkinson, Wis.

Dog Collars and Muzzles.

Alfred Field & Co., New York.
Tower & Lyon, New York.
Union Hardware Co., Torrington, Conn.

Door Checks and Springs.

John Chatillon & Sons, New York.
Norton Door Check & Spring Co., Boston, Mass.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York.

Doors and Shutters, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.

Drills.

Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Kearney & Foot Co , New York.
Knapp & Cowles Mfg. Co., Bridgeport, Conn.
Silver Mfg. Co., Salem, Ohio.
Standard Tool Co., Cleveland, O.
J. T. Slocomb & Co., Providence, R. I.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Drills, Blacksmiths', Etc.

Silver Mfg. Co., Salem, Ohio.

Drying Racks.

Gem Mfg. Co., New York.

Drop Presses.

Miner & Peck Mfg. Co., New Haven, Conn.

Dumb Waiters.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Dust Beaters.

Planet Mfg. Co., Holyoke, Mass.

Dynamos.

W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.

W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.

Elevators.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Elevator Screens and Guards.

Harrington & King Perforating Co., Chicago.

Emery.

Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.

Beeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.

New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.

Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.

J. L. Prescott Co., New York.

Enameling Ovens.

Union Heater Supply Co., Detroit, Mich.

Envelope and Stamp Lubricators

Pelouse Scale & Mfg. Co., Chicago.

Export Agents.

John H. Graham & Co. New York

Eyelets.

Waterbury Brass Co., New York.

Faucets.

Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.

E. T. Barnum, Detroit, Mich.

Files.

Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.
Sickels & Nutting Co., New York.

Filters.

J. H. Seed, New York.

Fire Escapes.

E. T. Barnum, Detroit, Mich.

Flat Ware.

See Plated Ware.

Flower Pot Stands.

E. T. Barnum, Detroit, Mich.

Fodder Cutters.

Silver Mfg. Co., Salem, O.

Foundry Riddles.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.

Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.

Fruit Pickers.

Edward Darby & Sons, Philadelphia.

Fruit Presses.

Enterprise Mfg. Co., Philadelphia.

Furnaces.

Hess, Synder & Co., Massillon, O.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.

New Jersey Car Spring & Rubber Co , Jersey City, N. J.

Garden Tools.

Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.

Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.

Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.

Stanley Rule & Level Co., New Britain, Conn.

Gears.

T. F. Welch & Co., Boston.

Generators.

W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.

H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.

Beeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.

Jos. Dixon Crucible Co., Jersey City, N. J.

Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co , Lancaster, Pa.

Grinding Mills.

A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.

Cleveland Stone Co., Cleveland.

Gummers.

E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.

E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.
U. S. Smokeless Powder Co., Batavia, N. Y.

Gun Implements.

Bartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Halter Chains.

Bridgeport Chain Co., Bridgeport, Conn.

Hammers.

R. W. Montross, Galien, Mich.
E. S. Stiles Press Co., Watertown, N. Y.
The Scranton & Co , New Haven, Conn.
Troy Nickel Works, Albany, N. Y.

Hammocks.

I. E. Palmer, Middletown, Conn.

Handles.

Berger Bros. Co , Philadelphia.
Russell & Erwin Mfg. Co., New York.

Hangers.

Hess, Snyder & Co., Massillon, O.
Ney Mfg. Co., Canton, Ohio.

Hangers, Coat and Hat.

Cronk Hanger Co., Elmira, N. Y

Hangers, Door.

Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York
Lane Brothers, Poughkeepsie, N. Y.
McKinney Mfg. Co , Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.

Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Sickels & Nutting Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.

Arcade Mfg. Co., Freeport, Ill.
Berger Bros. Co., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
R. Christensen, New York.
Clark & Cowles Plainville, Conn.
Edgar Mfg Co., Reading, Mass.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
Griswold Mfg Co., Erie, Pa.
F. J. Hall Co., Wallingford, Conn.
Hammacher, Schlemmer & Co., New York.
Hastings & De Baun, New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
F. E. Kohler & Co., Canton, Ohio.
Geo. P. Marks & Co., New Orleans, La.
James F. Martin, Frankford, Philadelphia
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Gray, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Wm. Schollhorn Co., New Haven, Conn.
Sickels & Nutting Co., New York.
Specialty Novelty Co., Lancaster Pa.
Surp'ess, Dunn & Co., New York.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
T. F. Welch & Co., Boston.

Harness Snaps.

Covert Mfg. Co., West Troy, N. Y.

Hasps.

McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.

F. E. Myers & Bro., Ashland, O.

Hay Forks.

F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.

E. T. Barnum, Detroit, Mich.

Heaters.

Edward Miller & Co., Meriden, Conn.
S. W. Owen Co., Norwalk, Ohio.
Plume & Atwood Mfg. Co , New York.

Hinges.

Bommer Bros., New York.
R. Christensen, New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.

Hinges, Spring.

Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hoisting Machinery.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Hones, Razor.

Alfred Field & Co., New York.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Hooks.

W. C. Heller & Co., Montolair, N. J.

Horse Nails.

Ausable Horse Nail Co , New York.
Capewell Horse Nail Co., Hartford, Conn.
J. C. McCarty & Co., New York.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.

F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Ordner Mfg. Co., Cleveland, Ohio.

Hose Pipe.

F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

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New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.

Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.

F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Ice Tools.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Parker Ice Tool Co., Worcester, Mass.

Ice Cream Freezers.

John H. Graham & Co., N. Y.
White Mountain Freezer Co., Nashua, N. H.

Insurance.

Mutual Life Insurance Co. New York.

Iron.

Bruce & Cook, New York.

Iron Castings.

C. H. Angus, Albany, N. Y.

Iron, Perforated.

Harrington & King Perforating Co., Chicago.

Jail Work.

E. T. Barnum, Detroit, Mich.

Japanning.

C. H. Angus, Albany, N. Y.

Keys.

Geo. W. Nock, Philadelphia.

Kraut Cutter.

National Saw Co., Newark, N. J.

Lace Leather.

John C. Hagan & Co., Manchester, Va.

Ladders.

Bicycle Step Ladder Co., Chicago.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.

John H. Graham & Co., New York.
Edward Miller & Co., Meriden, Conn.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Chimneys.

Pariah & Unger, New York.

Lamp Stoves.

Plume & Atwood Mfg. Co., New York.

Lawn Fountains.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.

Clipper Lawn Mower Co., Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia, Pa.
Supplee Hardware Co., Philadelphia.
Undershill, Clinch & Co., N. Y.

Lawn Rakes.

F. E. Kohler & Co., Canton, Ohio.
Undershill, Clinch & Co., N. Y.

Lawn Sprinklers.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Ordner Mfg. Co., Cleveland, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.

Lead.

Bruce & Cook, New York.

Lead Pencils.

Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.

Berger Bros. Co., Philadelphia.
John H. Graham & Co., New York.
John Sommer's Son, Newark, N. J.

Levels.

Tower & Lyon, New York.

Lifters Automatic.

Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.

Allerton, Clarke Co., New York.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
Th. M. Hass, New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Geo. W. Nock, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
E. S. Stiles Press Co., Watertown, N. Y.
Troy Nickel Works, Albany, N. Y.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Miner & Peck Mfg. Co., New Haven, Ct.
E. S. Stiles Press Co., Watertown, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y.
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes.

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.
John Sommer's Son, Newark, N. J.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Model Making.

T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
J. K. Williams, Akron, Ohio.

Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster Pa.

Nuts.

Union Nut & Bolt Co., New York.

Office Railings

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oil Cups.

Kendrick Valve & Washer Co., Syracuse, N. Y.

Oilers.

Cushman & Denison, New York.
Surpless, Dunn & Co., New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.

Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.

Ovens.

Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Paints.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.
Jos. Dixon Crucible Co., Jersey City, N. J.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

Pipe Cutters.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

Planes.

C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.

Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

Police Equipments.

Tower & Lyon, New York.

Polish.

John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Portable Harness Shop.

Eugene L. Johnson, Cincinnati, Ohio.

Post Hole Diggers.

John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.

Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.

E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.
U. S. Smokeless Powder Co., Batavia, N. Y.

Power Hammers.

The Scranton & Co., New Haven, Conn.

Printers' and Lithographers' Blankets

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Pulleys.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.

Boston & Lockport Block Co. Boston and Lockport, N. Y.

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Chase Pump & Mfg. Co., Columbus, Ohio.
John H Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
H. B. Rusler, Johnstown, Ohio.
Union Heater Supply Co., Detroit, Mich.

Punches.
Alfred Field & Co., New York.
Charles Morrill, New York.
Wm. Schollhorn Co., New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.
C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Railroad Brasses.
Magnolia Metal Co., New York.

Rails, Barn Door.
McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.
Enterprise Mfg. Co., Philadelphia.

Rakes.
John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.
Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.

Rat and Mouse Traps.
See Traps.

Refrigerators.
Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Gurney Refrigerator Co., Fond du Lac, Wis.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.
P. J. Conroy & Co., Philadelphia.

Reels.
Hartzell Novelty Works, Alliance, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.
John Sommer's Son, Newark, N. J.

Registers.
Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.
Brandenburg & Co., Chicago.
Eugene L. Johnson, Cincinnati, Ohio.
Root Bros. Co., Plymouth, Ohio.

Rivets.
Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
U. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.

Roller Skates.
Tower & Lyon, New York.
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.
Berger Bros. Co., Philadelphia.
L. D. Berger, Philadelphia.

Roof Trusses, Iron.
Berlin Iron Bridge Co., East Berlin, Conn.

Rubber Belting.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Stephens & Co., Riverton, Conn.
Union Nut & Bolt Co., New York.

Sad Irons.
Enterprise Mfg. Co., Philadelphia

Sand Paper
Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.
Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.
Champion Safety Lock Co., Cleveland, Ohio.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Elting & Co., Saugerties, N. Y.
W. & E. T. Fitch Co., New Haven, Conn.
H. B. Ives & Co., New Haven, Ct.
Reading Hardware Co., Reading, Pa.

Saws.
E. C. Atkins & Co., Indianapolis Ind.
Henry Disston & Sons, Philadelphia.
C. E. Jennings & Co., New York.
National Saw Co., Newark, N. J.

Saws, Butchers'.
John Chatillon & Sons, New York

Saw Sets.
E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York,

Saw Tools.
E. C. Atkins & Co., Indianapolis, Ind.
Bennett Combination Saw-Tool Co., New York.

Scales.
John Chatillon & Sons, New York.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.
James F. Martin, Frankford, Philadelphia
Underhill, Clinch & Co., New York.

Screens, Perforated Metal.
Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.
Harrington & King Perforating Co., Chicago.

Screens, Wire.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.
Sickels & Nutting Co., New York.

Screws.
Franklin S. Miles, Philadelphia.

Screw Cutting Tools.
Holroyd & Co., Waterford, N. Y.

Screw Drivers.
John H. Graham & Co., New York.
Tower & Lyon, New York.
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.
Alfred Field & Co., New York.

Shade Lines.
Samson Cordage Works, Boston.

Shafts.
Hess, Snyder & Co., Massillon, O.

Shears and Scissors.
Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
J. Wiss & Sons, Newark, N. J.

Sheaves.
Boston & Lockport Block Co., Boston and Lockport, N. Y.

Sheet Brass.
Waterbury Brass Co., New York.

Sheet Steel.
Dunbar Bros., Bristol, Conn.

Shelf Boxes.
W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn.

Shovels.
A. J. Phillips Co., Fenton, Mich.
John Sommer's Son, Newark, N. J.
Troy Nickel Works, Albany, N. Y.
Underhill, Clinch & Co., N. Y.

Signs.
Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.
Fulton Stamp Works, New York.

Silver Ware.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.
New York Belting & Packing Co., New York.

Sink Cleaners.
John W. Sudlow, Brooklyn, N. Y.

Skates.
John H. Graham & Co., New York.
Surpless, Dunn & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.
Union Hardware Co., Torrington Conn.

Skewers.
John Chatillon & Sons, New York.

Slaw Cutters.
Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Solder.
Bruce & Cook, New York.

Snow Shovels.
A. J. Phillips Co., Fenton, Mich.

Spades.
Underhill, Clinch & Co., New York

Spark Guards.
Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.
Bruce & Cook, New York.

Spoke Shaves.
Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.
Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co., Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.
Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.
E. T. Barnum, Detroit, Mich.

Stair Nosings.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.
Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Statuary.
E. T. Barnum, Detroit, Mich.

Steel.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Steel Hinges, Spring.
Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.
Harrington & King Perforating Co., Chicago.

Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F. E. Myers & Bro., Ashland, Ohio.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Plume & Atwood Mfg. Co., New York.

Stove Mittens.
Diamond Hardware Co., Boston.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Stove Trimmings.
Troy Nickel Works, Albany, N. Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co.' Cleveland, O.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

Structural Iron Work.
Berlin Iron Bridge Co., East Berlin, Conn.

Tackle Blocks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
Alfred Field & Co., New York.
F. J. Hall Co., Wallingford, Conn.

Tailors' Irons.
Union Heater Supply Co., Detroit, Mich.

Tape Measures.
Alfred Field & Co., New York.
Keuffel & Esser Co., New York.
Waterbury Brass Co., New York.

Taps and Dies.
Holroyd & Co., Waterford, N. Y.

Targets.
Cleveland Target Co., Cleveland, Ohio.

Tiling.
New York Belting & Packing Co., Ltd., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Tinning.
C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

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Tin-Plate.

Bruce & Cook, New York.

Tires Rubber.

New York Belting & Packing Co., New York.

Toilet Paper.

A. P. W. Paper Co., Albany, N. Y.

Tools.

Armstrong Mfg. Co., Bridgeport, Conn.
E. C. Atkins & Co., Indianapolis, Ind.
Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Th. M. Hass, New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Sickels & Nutting Co., New York.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Traps.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.
Specialty Novelty Co., Lancaster, Pa.

Trowels.

E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.

Boston & Lockport Block Co., Lockport, N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.

Tubes, Seamless Drawn.

C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Valves.

Berger Bros. Co., Philadelphia.
Kendrick Valve & Washer Co., Syracuse, N. Y.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.

Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Ventilators.

Pancoast Ventilator Co, Inc., Philadelphia.

Vises.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Howard Iron Works, Buffalo, N. Y.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.

Sprague Umbrella Co., Norwalk, Ohio.

Washers.

Clark & Cowles, Plainville, Conn.
Kendrick Valve & Washer Co. Syracuse, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Union Nut & Bolt Co., New York.

Washing Machines.

W. R. Harrison & Co., Massillon, Ohio.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.

Nanz & Co., New York.

Wax Tapers and Torches.

T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Wheelbarrows.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Window Guards, Punched.

Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.

Samson Cordage Works, Boston.

Window Screens.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

Wire, Manufacturers.

Bruce & Cook, New York.
Dunbar Bros., Bristol, Conn.
Alfred Field & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago San Francisco.
Waterbury Brass Co., New York.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Cloth.

E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Goods Manufacturers.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Fuller Bros. & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
T. F. Welch & Co., Boston.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Gates, Fences and Fencing.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Lathing.

Edward Darby & Sons Philadelphia.

Wire Nails.

Bruce & Cook, New York.
Fuller Bros. & Co., New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Wire Work.

Edward Darby & Sons, Philadelphia.

Woodenware.

John Sommer's Son, Newark, N.J.

Wrenches, Manufacturers.

Armstrong Mfg. Co., Bridgeport, Conn.
Best Wrench Co., Chicago.
Coes Wrench Co., Worcester, Mass.
Alfred Field & Co., New York.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Wrought Butts.

Bommer Bros., Brooklyn, N. Y.
Reading Hardware Co., Reading Pa.

Zinc.

Bruce & Cook, New York.

Zinc, Perforated.

Harrington & King Perforating Co., Chicago.

"A GOOD REPRESENTATIVE OF THE TRADE."

Warwick Cycle Mfg. Co., Springfield, Mass. [*Bicycles*]: We have always considered HARDWARE a good representative of the Hardware trade.

"BETTER THAN ANY OTHER TRADE PAPER."

S. L. Allen & Co., Philadelphia, Pa. [*Agricultural Implements, etc.*]: We have found results of our advertising with you better than in any other trade paper.

"WELL PLEASED WITH 'HARDWARE.'"

W. W. Johnston, Bartlett, Ohio: Enclosed find $1 to pay my subscription to your journal. I am well pleased with the paper, and think it would pay all dealers in Hardware to take it.

"BEYOND CRITICISM."

Wm. Jessop & Sons, New York. [*Steel manufacturers*]: Another five years as proportionately successful as HARDWARE's last will place it almost beyond the criticism of friends or competitors.

"READ IT FROM THE FIRST ISSUE."

C. E. Neale, Worcester, Mass.: Please find enclosed the cash for the coming year's subscription to HARDWARE. I have read it from the first issue, and intend to keep right along reading it, and wish you success.

"TOO VALUABLE TO BE WITHOUT."

Charles T. Mitchell, Baltimore, Md.: HARDWARE is too valuable to be without.

"LIKED 'HARDWARE' FROM THE START."

Gibbs Mfg. Co., Canton, Ohio. [*Hardware Specialties*]: We liked HARDWARE from the start, and have no reason to think otherwise now.

"USEFUL AS AN ADVERTISING MEDIUM."

Smith & Egge Mfg. Co., Bridgeport, Conn. [*Traps, Locks, Chains, Pulleys, etc.*]: We have found your paper very useful as an advertising medium.

"'HARDWARE' IS READ BY THE DEALERS."

Forehand Arms Co., Worcester, Mass. [*Arms*]: In the numerous inquiries received daily, reference is made to HARDWARE as often as to any other publication, which shows that HARDWARE is read by the dealers.

"BEST CLASS TRADE FROM HARDWARE LINE."

Sager Mfg. Co., Rochester, N. Y. [*Bicycle Saddles and Specialties*]: We have received a large proportion of the best class of trade from the Hardware line. We always regard it advisable to dispose of our goods wherever we can do so to advantage. We see no reason why the Hardware trade should be excepted.

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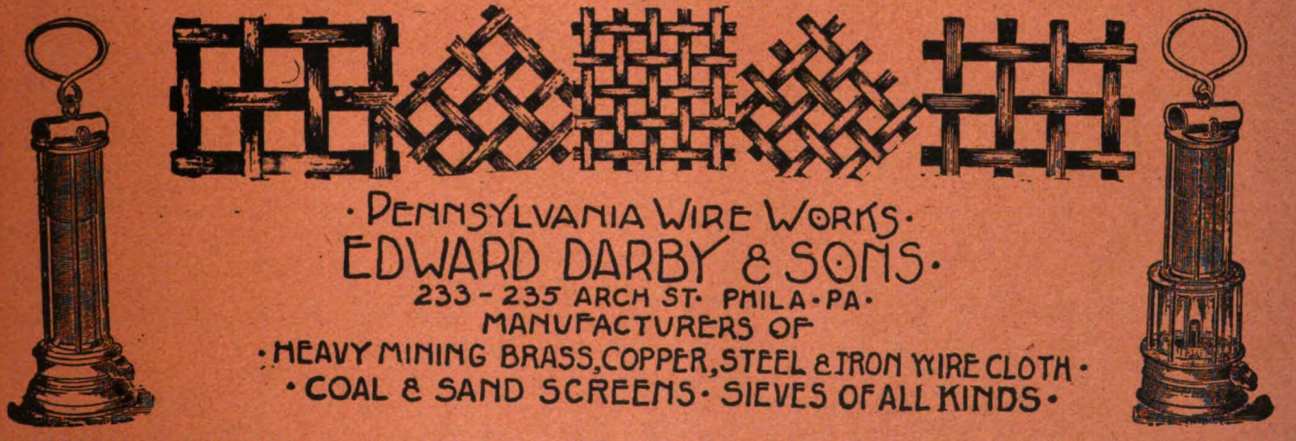
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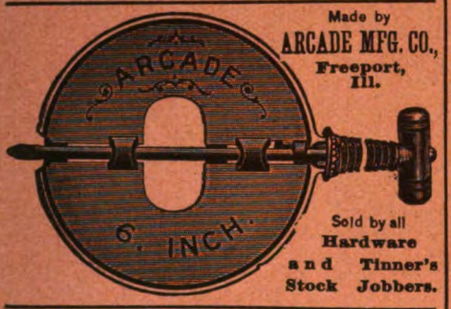
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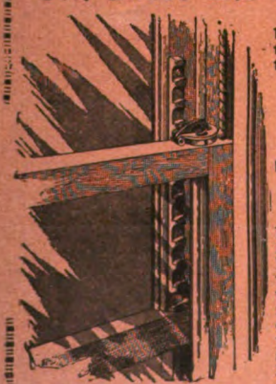
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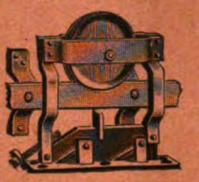
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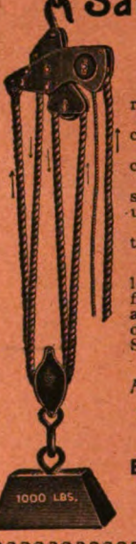
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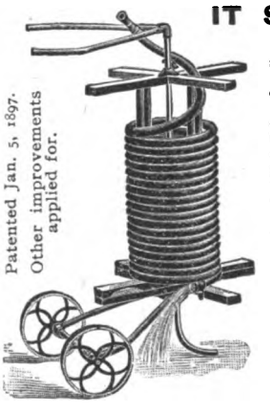
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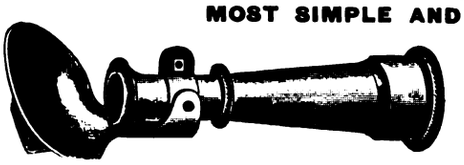
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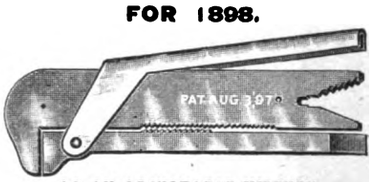


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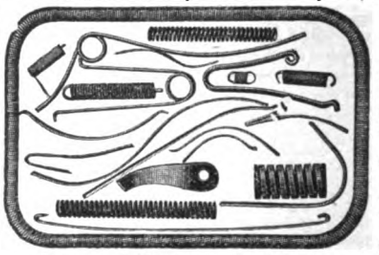
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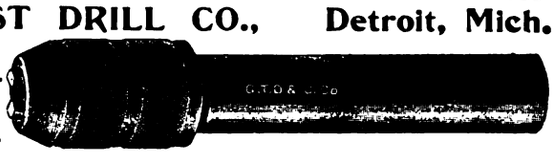
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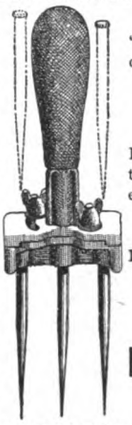


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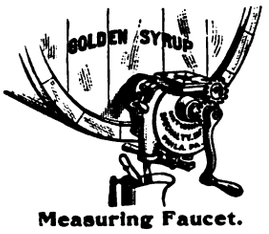
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HAIR FELTING for covering Boilers, Steam and Water Pipe, and lining Refrigerators.

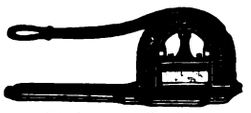
BAEDER, ADAMSON & CO

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182 LAKE STREET, CHICAGO.

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Tobacco Cutter.

We Make Faucets

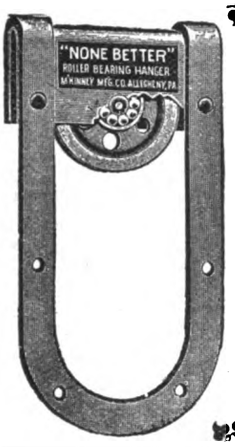
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No. 3 Mill.


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STEEL DOOR HANGERS.

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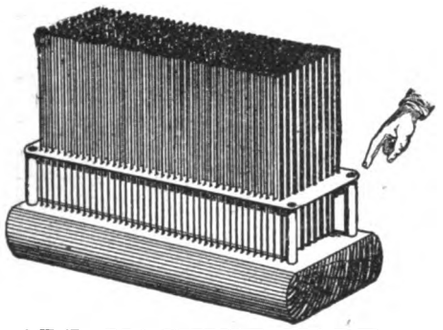
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THEY WILL INTEREST YOU.

Also Track and Stay Rollers.

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Well, it gives surprising durability!

Our goods are Guaranteed unsurpassed in Durability, Workmanship, Material.

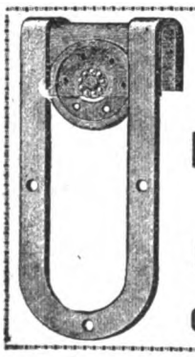
Their elegance attracts the eye at once.

. . . *FOR FOUNDRIES, PAINTERS, ROOFERS, ETC.* .

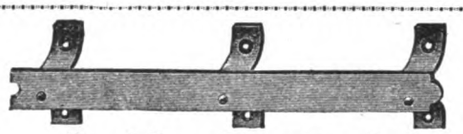
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Mention "HARDWARE." NEW ORLEANS, LA.

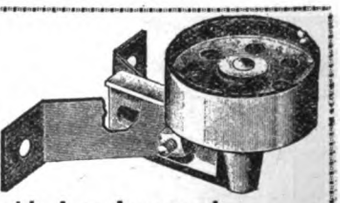


Steel Door Hangers, Nos. 0, 1 & 2.



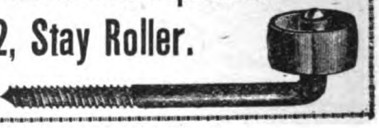
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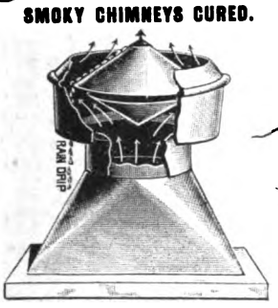
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Is now conceded to be the BEST VENTILATOR in use

TO VENTILATE Your Homes and Cottages
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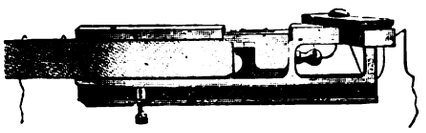
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We Guarantee Them, and make them in all sizes from 2 inches to 10 feet, of Galvanized Iron or Copper.

See that your ventilators are marked "Pancoast," and take no other. Testimonials on application. Manufactured by the

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A Perfect Saw-Tool at Last.



It SETS to the hundredth part of an inch.
SIDEDRESSES in any required degree.
JOINTS with unvarying exactitude, and otherwise
FITS the saw in all respects for easy and effective work.

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Succeeding BERGER BROS., January 3, 1898.

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MACHINIST.
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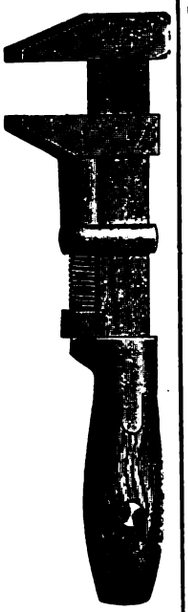
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KNIFE HANDLE
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Screw Wrenches.



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Established in 1859. Registered April 9, 1895.
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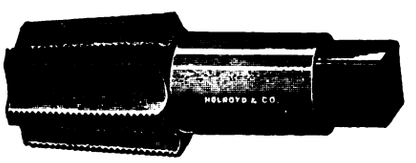
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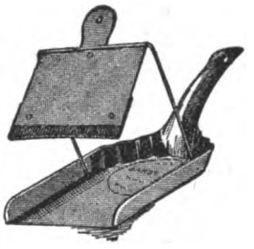
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Tidy housekeepers will throw away the dirty sink broom and buy the **Dandy Sink Cleaner on Sight.** . . . . .

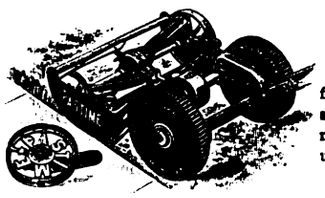
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IMPROVED 1898 MODEL.

This front cut mower trims to within ¼-inch of any wall, fence, tree, &c., by simply removing the Guide Wheel, as shown in cut. (Requires 5 seconds). Both wheels removed make it a double trimmer. It is sharpened with a file by the user.

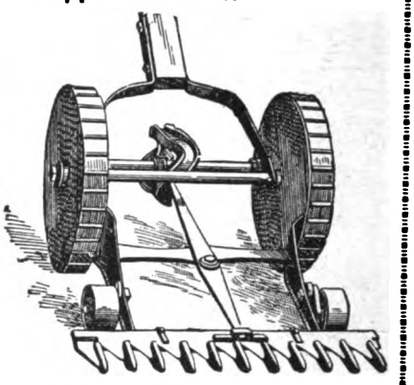
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Pastime Lawn Mower Co.,

We have the Best Weed Extractor in the market. 226 ABBOTT ST., DETROIT, MICH.

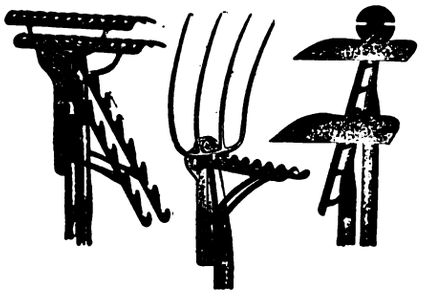
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That will **Kill all the Weeds in your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and weeds will disappear. **The Clipper will do it.**



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For Forks, Shovels, Rakes, Hoes, &c.

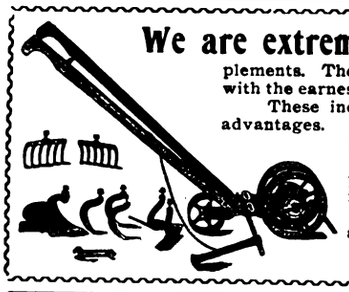
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These inducements are potent for profit—note three of the salient advantages. Quality and workmanship are unquestionably and absolutely the best obtainable.

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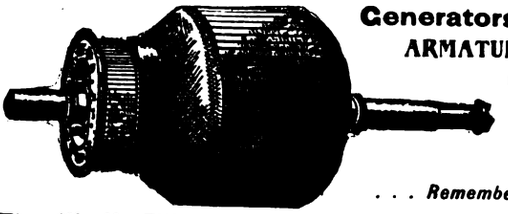
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Special Shapes and sizes made to order. We also manufacture Stones specially adapted to Jewelers', Watchmakers', Carvers' and Lithographers' Trade.

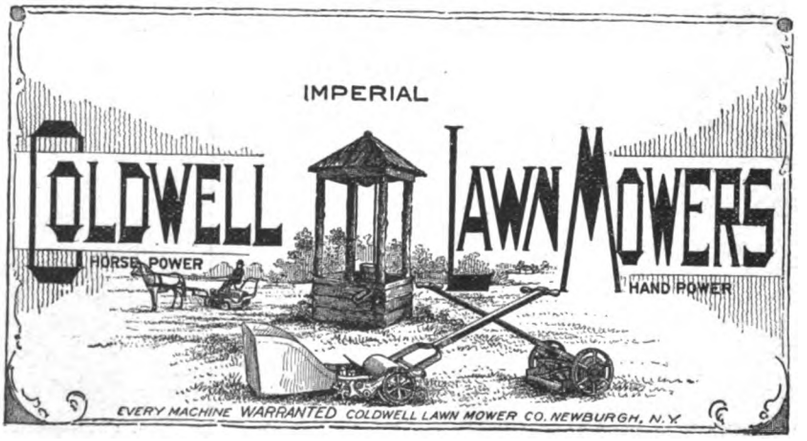
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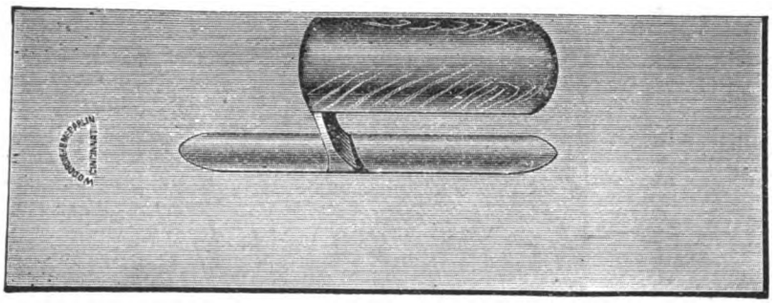
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Power Clippers, both hand & mechanical.
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The best made.

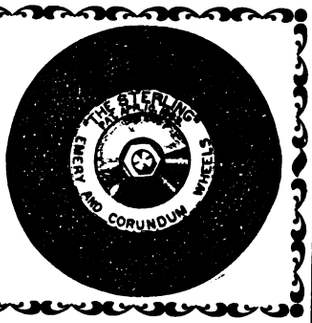
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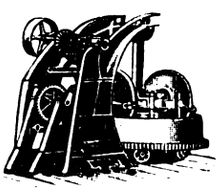
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Combination mill to grind clay.

SPECIAL MACHINERY

WIRE drawing, CLAY working,
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CUTTING and WELDING machines,
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Do You Manufacture WIRE or SHEET METAL GOODS?

If so, you need the latest up-to-date

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We have filled the wants of others in this line, why not yours?

THE AUTOMATIC MACHINE CO., Railroad Ave., and Garden St., BRIDGEPORT, CONN.

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IT'S IN THE TEETH.

The Patent "REFORM" Curry Comb is composed of three shallow, oval trays, with corrugated edges. The parts are struck up from a fine grade of cold rolled steel, heavily tinned and bronze lacquered, firmly riveted together and warranted not to rust. The outer dimensions are 6½x4¼ inches and by reason of the large cleaning surface and peculiar arrangement of teeth, the comb will do its work with a large saving of time and labor, cleaning with equal thoroughness both long and short coats. There are no places to accumulate hair and it will not tear or injure the brush, the comb being quickly freed from accumulation by giving its face a gentle tap.

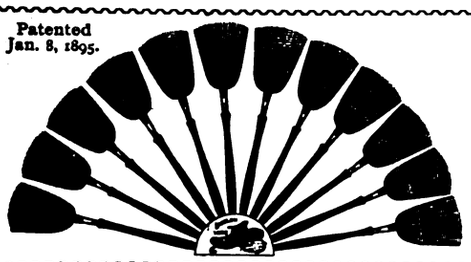


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SOLE MANUFACTURERS,

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THE WIRE FLY KILLER.

UNIVERSALLY USED ALL OVER THE WORLD.

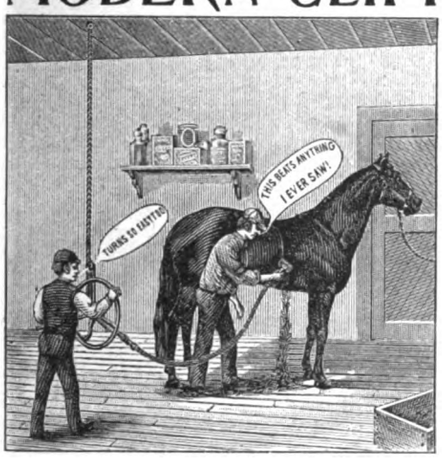
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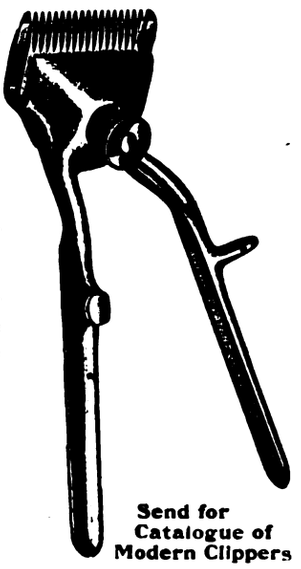
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If you want the Best Horse Clipper Made ask your jobber for "**STEWART PATENT.**" They will cost you no more than the inferior kind. **All Clippers** of our make are **Warranted** and are absolutely interchangeable.

CHICAGO FLEXIBLE SHAFT CO.

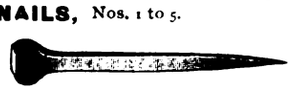
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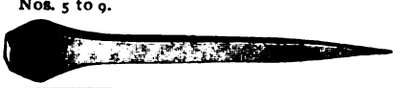
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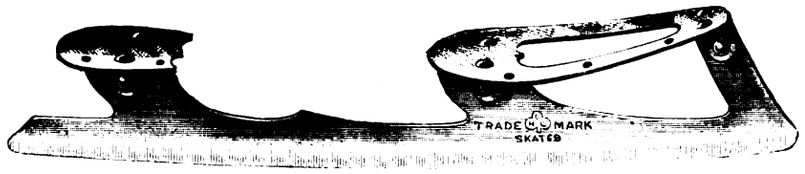
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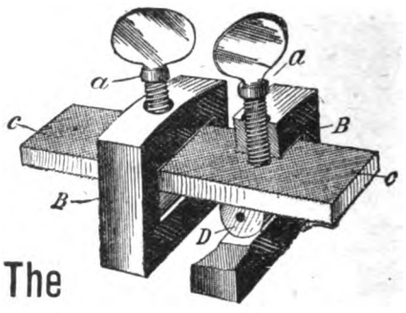


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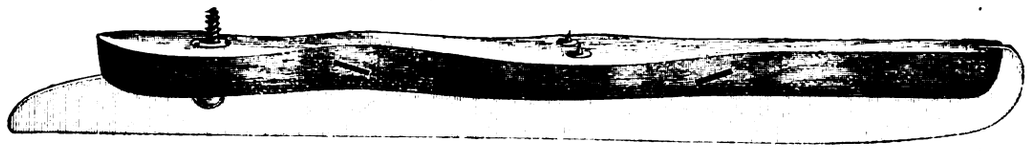




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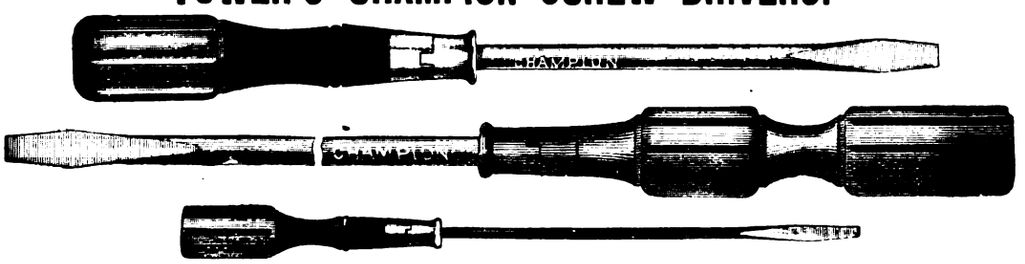
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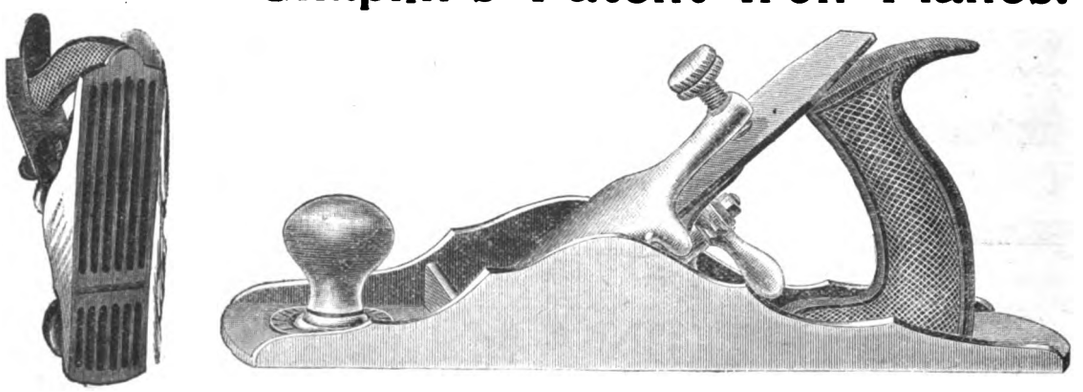
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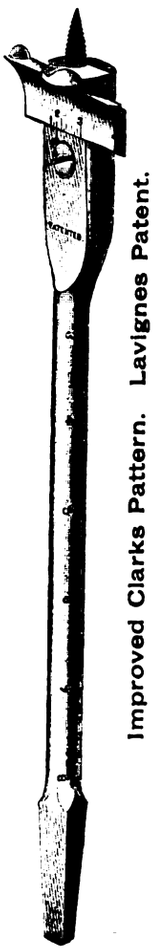
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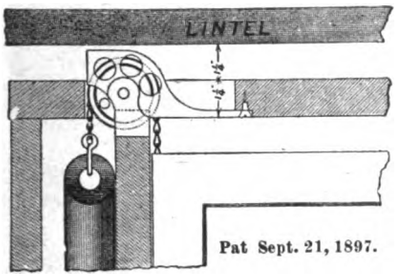
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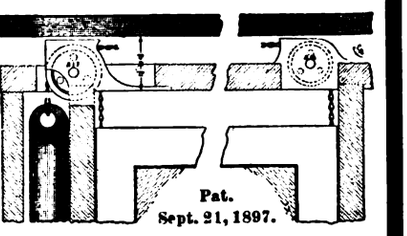
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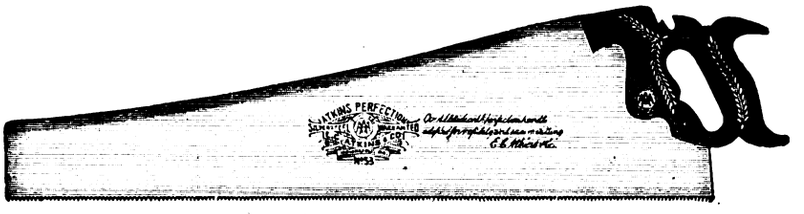
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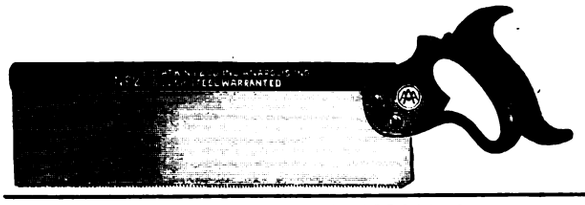
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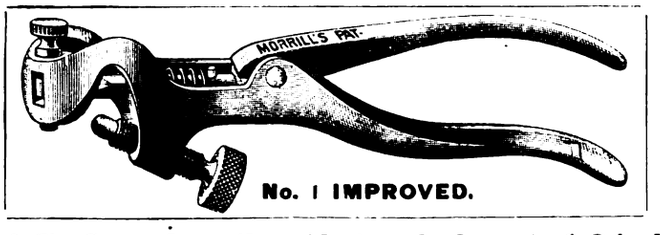
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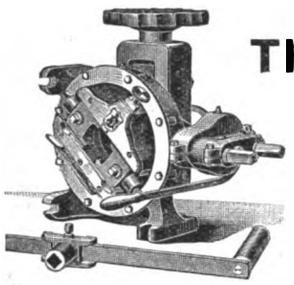
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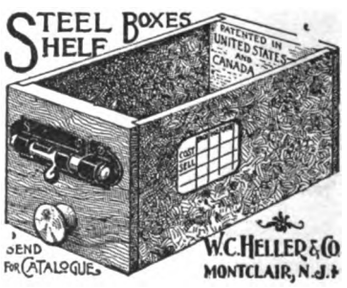
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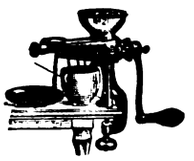
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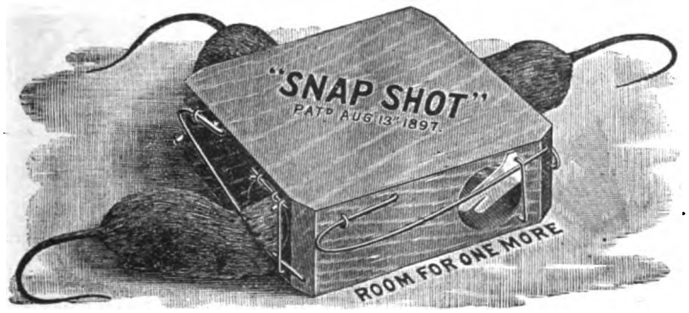
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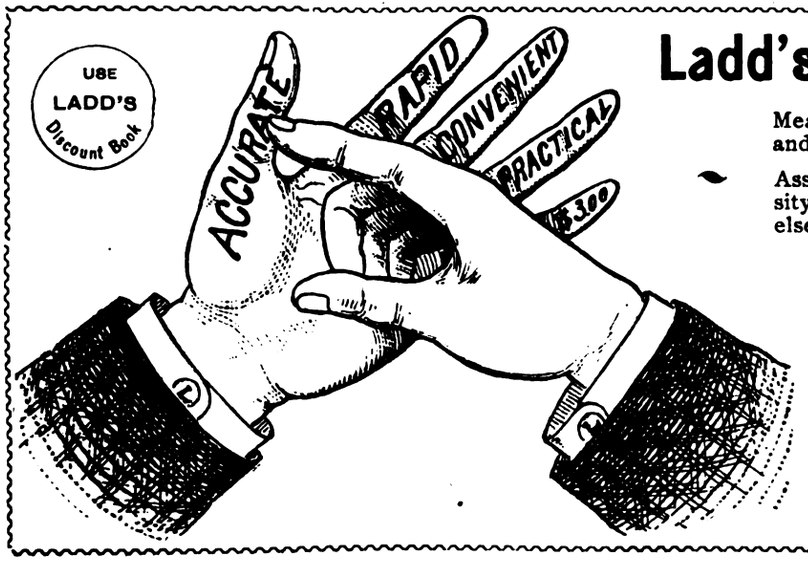
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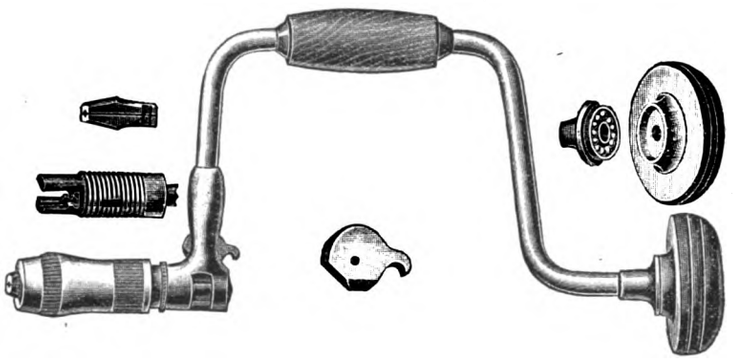
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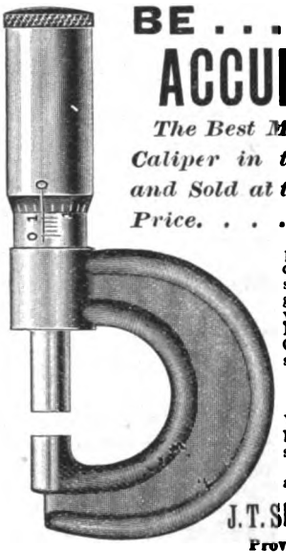
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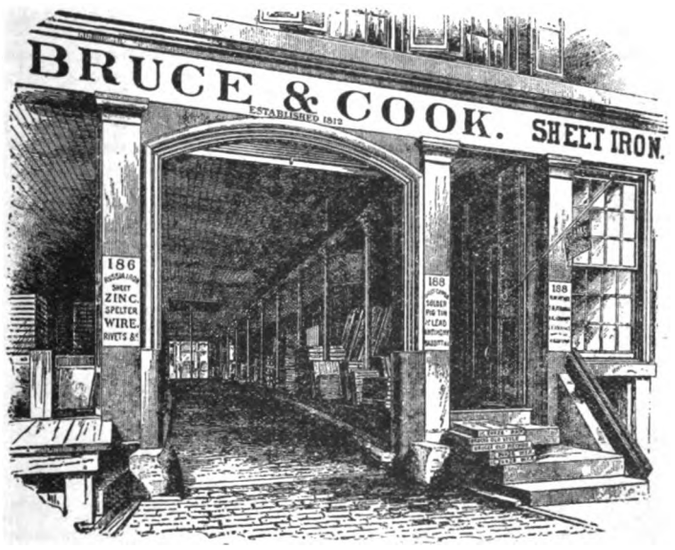
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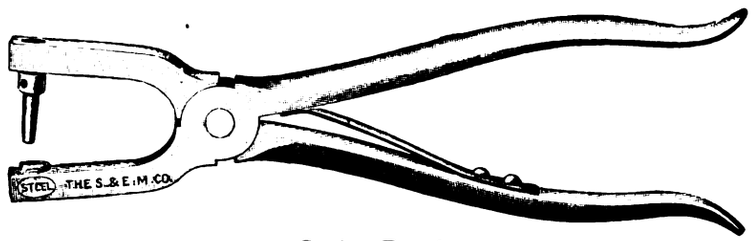


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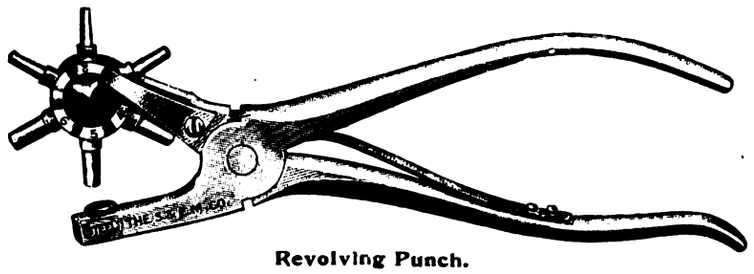
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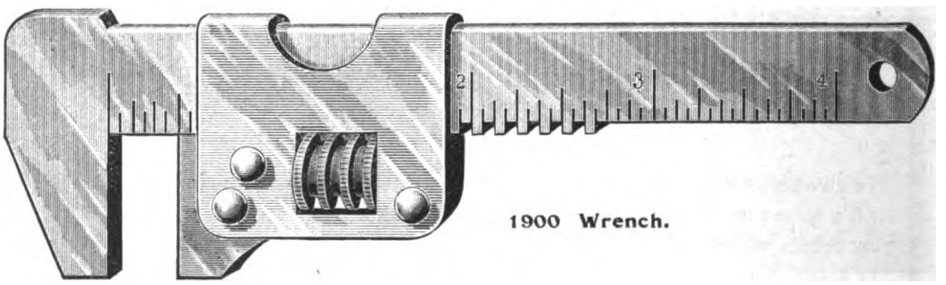
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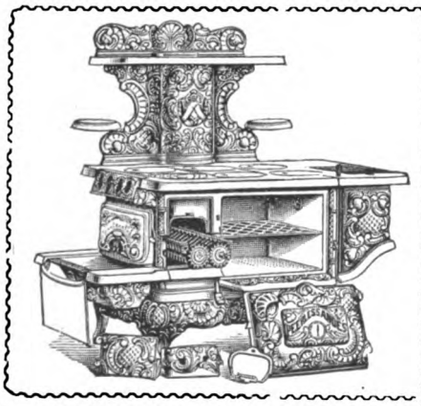
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HARDWARE

VOL. XVI. MARCH 25, 1898. NO. 12.

HARDWARE is a Review of the American Hardware Market, specially devoted to the Retail Trade. Published the 10th and 25th of each month, by the HARDWARE PUBLISHING CO., No. 148 CHAMBERS ST., NEW YORK.

BRANCH OFFICES: { CHICAGO, - No. 1142 MONADNOCK BLOCK. BOSTON, - - No. 33 EQUITABLE BUILDING.

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L. E. MITCHELL, - - President.
JAMES H. KENNEDY, - Editor and Manager.
HENRY HOPKINS, - - Associate Editor.
FRED. A, CATON, - - Asst. Manager.

The Circulation of "Hardware" is Larger Than That of Any Other Paper in the United States Devoted to the Hardware Trade.

Editorial Trade Review.

The reported business throughout the country, with the exception of a few points in our Eastern markets, continues to be of that favorable character which admits of comparisons being made that indicate present improvement. Even in the East the ultra-conservatism, having reference to anticipating trade requirements for the season now rapidly approaching, is gradually giving place to a more satisfactory state of affairs, showing increasing confidence in a trade revival.

The Northwest and the Central West especially exhibit the existence of a demand which is of undoubted strength, and hase very appearance of long continuance. This healthy impetus is given to many lines of business other than Hardware proper; agricultural implements, the sale of which is largely in excess, from obvious reasons, of any previous season, is largely benefited; the prosperous farmers have at last confidence in their future prospects, and intend to deserve the success they but recently doubted their ability to command.

The increasing production of iron and steel favored greatly by government requirements has not had a depressing effect upon current prices, owing to the continuance of the excellent regular demand which keeps up surprisingly, and finds in some lines orders booked far ahead.

The satisfactory weather conditions in the South have had a good effect on business, and both wholesale and retail dealers report a steady improvement. The Northwest, with the opening of lake navigation now near at hand, will, with the natural movement of all sailing and other craft, bring about accelerated conditions of traffic that will still further increase the general confidence.

Quotations on copper have been strengthened by the demands of the government. The large purchases made by the contractors in order to fulfil their promises, have made the market a strong one, the strength of which will be felt throughout the season.

The naturally disquieting effect of the reports affecting the relations of this country and Spain has affected but little the trend of general business, the belief being prominent that any conditions that might jeopardize the peaceful relations of the respective countries, would be settled through diplomacy by indemnity for loss sustained, or other concessions of a character to leave the national honor of both countries unsullied and the public peace undisturbed.

It is gratifying to know that conditions still continue favorable for the steady growth of our prosperous export trade. It would seem as though we were but just realizing the important advantages, worthy of national support and legislative encouragement, which surround our industrial development and commercial expansion.

It is universally admitted that our far-reaching efforts to impress upon other nations an ability to compete with any of them in the manufacture and sale of all the products requiring mechanical skill in their conception and construction, will eventually find the whole world a successful market and under conditions that will affect but little the admittedly superior pay received by our intelligent laborer.

The Tariff Date Decision.

It was a very just decision, that of Judge Townsend in the United States Court at New Haven, Conn., recently, having reference to the hour when the Dingley tariff law went into effect. The judge took the view which was undoubtedly founded on justice to all, that the bill did not become a law until the signature of the President made it one. There was no necessity for any guesswork. Was it right or was it wrong? Should the law become operative before it became a law at all, or only after it was enacted? The judge decided upon the latter construction, believing that in a matter as important as this, there should be no lack of the quality of definiteness, especially when it pertained to a business connected with the operations of an international code of morals and equity. The decision of the judge is hailed with satisfaction by merchants generally and proves the treasury department in error when they argued that the law went into effect on the very beginning of the day upon which it was finally signed. Perhaps it desired a position of the kind suggested should be legally adjudicated and acted upon in order to establish a precedent.

The Consular Service.

In the interest of an improved consular service, it is a pleasure to record the fact that a bill has been favorably reported by the House Committee on foreign affairs, which provides a comprehensive system of classification, confining appointments to persons between the ages of twenty-one and fifty years, and who must be citizens of the United States. A commission consisting of two members of the Senate, three members of the House, and an officer of the State Department, will assist the President in the work of reorganization.

It is intended to provide examinations to test the

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fitness of applicants for appointment and promotion, in which no grade is to be over-stepped. Larger salaries in proportion will take the place of the fees now in vogue, and the prospects are good for a great improvement to result from this proposed measure, and that the efforts of our proposed merchants and manufacturers who are expending many thousands of dollars in the work of opening up new markets and more extended foreign trade, will be assisted and supported by our National representative one more familiar with the wants and requirements of his delegated territory.

The Annual Meeting of the Hardware Club.

The annual meeting of the Hardware Club of New York was held in the club rooms on the afternoon of Saturday, March 19th. It was called to order by President Peter McCartee, who, in a few well-chosen words, outlined the work of the past year, and felicitated the members of the Club upon the successful history of the organization. The minutes of the last meeting were read by Secretary J. L. Varick, and approved, after which the secretary presented his annual report. The annual report of Thomas F. Keating, treasurer, was also received, and that of Webster R. Walkley, chairman of the finance committee.

The annual election of five governors was declared in order, and the following gentlemen appointed as tellers: Christian T. Stork and Charles L. R. Clark.

A report of the nominating committee, consisting of Charles L. Mead, George A. Graham, Benjamin A. Hawley, George Munson and Thaddeus Smith, was then presented. Alfred D. Clinch, Mortimer C. Ogden and W. R. Walkley were renominated as members of the board of governors for the term expiring 1901, while James D. Foot and George J. Laighton were nominated as the successors of Brace Hayden, removed to California, and Charles Daly, who declined a re-election. These five gentlemen were all unanimously elected to membership.

The board of governors and the trade generally are to be congratulated upon the accession of these two new members to these positions of responsibility and influence. Mr. Foot is president and treasurer of the Kearney & Foot Co., and Mr. Laighton is president of the Russell & Erwin Mfg. Co. Each of these gentlemen has taken a deep interest in the welfare of the Club, and will work earnestly for its success in the future.

The following gentlemen have been elected to membership in the Club since our last report:

R. H. Beach, No. 44 Broad Street.
Ernest F. Eidlitz, No. 31 Nassau Street.
Louis Ferguson, No. 433 West Thirty-first Street.
William B. Wheeler, No. 80 Broadway.
William R. Wilder, No. 45 Cedar Street.

New England Hardware Dealers' Association.

The regular meeting of the New England Hardware Dealers' Association was held at the United States Hotel, Boston, on March 9th, with President D. Fletcher Barber in the chair. The chief business of the evening, after a very excellent dinner had been disposed of, was the election of a president. Edward A. Loomis, of the Belcher & Loomis Hardware Co., Providence, R. I., was unanimously elected to that position, and conducted by ex-President Barber to the chair. Mr. Loomis made a few happy remarks, which were greeted with applause. Speeches were made by George M. Fiske, of Boston, and William H. Sayward, secretary of the Master Builders' Association of Boston, on the subject of the building material lien law.

The following committees were elected for the ensuing year:

Pricing Committee: M. A. Chandler, Boston; J. B. Hunter, Boston; J. O. Nichols, Boston; W. A. Billings, Dorchester; W. E. Plumer, Somerville.

Investigating Committee: E. O. W. Bliss, Boston; H. M. Sanders, Boston; M. H. Tarbox, Boston.

Membership Committee: H. G. Janvrin, Boston; J. H. Sagwood, Haverhill; M. H. Tarbox, Boston.

Auditor: Hiram G. Janvrin, Boston.

The next meeting will be held at the same place, on the evening of April 13th.

The Bates & Son Arms & Engine Co., Philadelphia, has been incorporated with $160,000 capital to manufacture revolvers. The company has purchased the machinery and tools formery operated by Wm. G. Smith & Co., for making the Columbia revolver and will start up the business at the same place, Nos. 1429-31 North Twenty-first Street. It is reported that a New York house has contracted for all the revolvers they can make.

The down-town retail store in Chicago of the Monarch Cycle Co. formerly located at No. 152 Dearborn Street, has been removed to No. 122 Dearborn Street.

A Hardware Association Number of "Hardware."

On April 10th, 1898, *Hardware* will celebrate the eighth anniversary of its birth.

Hardware has certainly used its best effort for the promotion of neighborly friendship and good fellowship among the members of the trade. It has given freely of its space for the dissemination of news in regard to the great Hardware organizations which, since 1890, have become so grand a force for good in the Hardware world. It has by its voice, encouraged in every possible way the creation of organizations having for their purpose the bettering of trade conditions, and has been an enthusiastic supporter of every movement having for its purpose the good of the trade.

It occurred to us that the celebration of our anniversary of April 10th, 1898, could be made of signal usefulness to the trade everywhere, by the publication of a SPECIAL HARDWARE ASSOCIATION number.

It is our purpose, therefore, with that issue, to present a mass of valuable information in regard to the beginning and growth of the great forces or organizations which have accomplished so much in the way of acquaintance, better business methods, and the cultivation of fraternal regard. These sketches of the rise and growth of the organizations will be accompanied by portraits of various officers of the same, special articles from the pen of men who have been instrumental in the founding of these societies, and much else of interest in connection therewith. We feel that the time has come when the various steps which led to the creation of these forces within the Hardware trade should be gathered and properly placed upon record, and more especially as the information can now be secured at first hands, from those who assisted in this work.

We ask the hearty co-operation of Hardwaremen everywhere in this laudable effort, and our experience of the past leads us to firmly believe that the same will be given with a generous willingness which shall be very effective in its results.

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As to Credit.

Credit is almost a necessity in the world of commerce. There are many businesses run upon a cash basis and where no credit is given, but these are isolated cases in large centres, but the basis of most mercantile transactions of to-day is man's faith in man. It would be a sorry state of affairs if this idea, or sentiment if you may choose to call it, were eliminated from our dealings with our fellow men. Not only in regard to the buying and selling of goods, but in every act of life, we must act upon this principle. We must trust the physician who attends us when we are sick; we have to trust our lawyer, when he is engaged by us to attend to some legal matter about which we know nothing; we have to trust to our milkman, that our milk is not contaminated by disease and death; and so on through every detail of life we are dependent upon others, and must give them credit for doing things correctly about which it is impossible for us to know. So with the merchant and banker. They must give their goods and money out for people to use for them, and must take risks in getting an equivalent in return.

The merchant has faith enough to believe that the people he credits will pay him for the goods. He must take a certain amount of risk, yet he calculates upon the chances of getting his pay; and his calculations in the main are generally correct.

The advantages of credit are numerous.

By its aid a man with ability and energy is enabled to do that which, without it, would be beyond his reach. He buys goods and turns them into money, and pays back his creditor, and also has a margin of profit left him for his skill in the transaction. Having thus carried out his promises, and with the aid of the profit thus made, he repeats the operation upon a more extended scale with proportionate results. He thus not only is deriving a benefit himself, but the man supplying him with the goods and the consumer who is accommodated by him are each receiving benefit. Credit enables a man to obtain capital with which to improve lands, erect buildings, and carry on enterprises which give employment to people and thus add wealth to the country.

To the merchant it is especially valuable and it is in this connection that we have particularly to deal in this article.

The merchant must, of necessity, extend credit to his customers, and he must weigh the chances of bestowing it worthily or otherwise in each particular case. He should not be actuated or influenced by any but strict business considerations. The fact that he would be conferring a benefit upon the man asking it even if the bill were never paid, should not induce him to run risks. If he chooses to assist one in need, that is a matter of charity and not business. These acts should be kept separate from business transactions, as no matter of mere sentiment should be considered in granting credit. The first important question is "Is he honest?" If you have information which would lead to this conclusion, it will materially assist in solving the question. But this is not enough. All honest men do not pay their bills. They may wish to but their poverty, misfortune, sickness, extravagance and a hundred other things may intercept their plans. In fact we are inclined to believe people as a rule prefer to pay their bills.

Of course we have all seen an occasional instance where a man deliberately plans to avoid doing so if it is at all possible. But such cases are rare. The great majority wish to meet their obligations and endeavor to do so.

When a stranger applies for credit, let him give his own story and then refer to another party. If we are satisfied with what he says, and his general appearance seems favorable, we may grant his request without consulting his references. Every merchant ought to be a good judge of human nature and be able to "size up" a man rapidly. He may make mistakes, but this faculty is often of great assistance in arriving at a correct conclusion.

But there are some persons who abuse the credit given them by the tradesmen. Instead of keeping their promises as made at the sale, they seemingly forget them as soon as made. Instead of coming to the man who has accommodated them and explaining their position, if unable to pay as agreed upon, they allow their creditor to wait upon them indefinitely, and are apparently ungrateful for his leniency.

When a man has thus proved himself unworthy of credit and ungrateful of it, it is best to refuse him when next he asks it. Of course he will make nice promises and excuses, but it is better to be done with him forever as far as credit transactions are concerned.

It is not always that people of ability to pay can safely be given credit. A trader recently told me that a man who was in receipt of a large salary and had much property, owed him for a bill of tinware for about three dollars and a half, but he said he would be compelled to sue him as it had been standing over a year and he was tired of running after him so many times. When a man like this is known he should not be given credit under any circumstances.

It is not the size of a man's bank account which determines his eligibility to credit. Many with slim purses can safely be trusted because they promptly fulfil whatever promises they make. LYLE MERTON.

Sending American Files Abroad.

It seems surprising to a veteran in the Hardware business, that, at the present time, among our growing exports should be a constantly increasing output of American files. The fact that our file product is so perfectly made by the aid of American machinery, as to successfully compete with the hand-cut product of Great Britain and the factories on the Continent, is of itself a matter for national and industrial pride. The Arcade File Works, Anderson, Ind., Allerton, Clarke Co. selling agents, No. 97 Chambers Street, New York, among other foreign shipments, have recently filled in a single order from an English cycle manufacturing company an assortment of their files amounting to 648 dozen. The order was the outcome of a set of samples sent to this cycle company some time ago which, being tested against the English product under every possibility, resulted in this handsome order.

As stated by Mr. C. C. Clarke, the Treasurer of the company, their foreign shipments now embrace not only Great Britain and France, but also Russia, Norway, Denmark, Austria, etc., and are increasing in a manner so steady and satisfactory as to indicate a certainty of a prosperous future.

The Yale & Towne Mfg. Co., now at Nos. 84-86 Chambers Street, New York, intend removing about May 1st to the new Franklin Building in Murray Street near Broadway. This handsome twelve-story building, 100 feet front, by 95 feet deep, is now nearly completed, and will then be ready for occupancy. There will be four stores on the street level, one of which in connection with the sub-basement and nearly the entire floor above the store, will be occupied by the Yale & Towne Co. The arrangement of space used by the company is considered to be greatly to their advantage, making the removal a very desirable one.

Charles Churchill, managing director of Chas. Churchill & Co., Ltd., of London, Birmingham and Glasgow, will arrive in New York by the *Lucania* on April 2nd, and proposes spending some two months on this side, visiting the various manufacturers here they are representing. His headquarters will be in New York, at the offices of the American Gas Furnace Co, No. 23 John Street.

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Champlain Horse Nails.

The National Horse Nail Co., Vergennes, Vt., J. C. McCarty & Co., sole agents, No. 10 Warren Street, New York, have for thirty years been prominently before the Hardware trade as manufacturers of the Champlain Horse Nail, the advertisement of which will be found on page 52.

This company was established in 1868. They claim the invention of the first machine ever used in the pointing of horse nails, and in 1869 placed upon the market the first horse nail finished and pointed ready for driving. They have always deemed the production of a perfect nail that should be equal to the very best possible, both in material and workmanship, was the essential requirement of every horseshoer and horse owner; and with this object in view, they confine their attention in their methods of manufacturing, to the production of one grade only, never putting on the market any horse nail made from inferior stock and marketed under conditions which require a cheaper nail. They make only the "Champlain," which is guaranteed by the company as "first-class in every possible respect, manufactured entirely from one known brand of Swedish material," which from long-continued use they claim to be "of the highest grade obtainable."

Champlain nails are strictly "hot forged" and "cold hammer pointed." The Aerated Fuel process of burning oil is used in the furnaces of this company's extensive plant. This process insures a perfectly uniform heat while forging, and prevents the accidental introduction of any impurity into the metal during the process. A careful and thorough individual selection previous to boxing enables the company to give their warrantee of perfect production in every respect. Samples and prices may always be obtained at the New York office of the company, or application at their office in Vergennes, Vt.

A New Departure.

The *Commonwealth* is glad to chronicle the fact that a new and important industry has just been established in this city under the name of the Fond du Lac Toy & Specialty Co. The promoters and organizers are C. J. Medberry, David Jack and M. J. Peck. The fact that the new enterprise is in the hands of these gentlemen, bespeaks for the new departure a success from the start, and will add to Fond du Lac's already large list of manufacturing industries, one that the people may expect will soon stand at the head of the toy trade, if the success that these gentlemen have attained in the refrigerator business is to be taken as a criterion.

C. J. Medberry, David Jack and M. J. Peck are the organizers and principal stockholders of the Gurney Refrigerator Co. of this city, who organized in Oshkosh in 1890, for the manufacture of refrigerators on an entirely new principle of construction and refrigeration. That their judgment on points of manufacture is correct, is attested by the fact that they now stand at the head of this line of manufacture in the United States, and that nearly all manufacturers have departed from the old style and are now closely following the lines of construction and the business policy inaugurated by this company.

We are informed that the manufacture of refrigerators is one that is dependent, like farming, upon the seasons, all deliveries being made during one short period of the year, from January to July, with a manufacturing period extending from October to May or June. During this time the refrigerator works are pushed to the highest capacity, turning out from 125 to 150 refrigerators per day, the works for the balance of the season standing practically idle.

It is the intention of the organizers of the Fond du Lac Toy & Specialty Co. to utilize for the present, the Gurney works during this period of inactivity, in the manufacture of a line of rocking horses and toy furniture. Philip Marqua, of St. Louis, who is the patentee of many of the articles to be manufactured and who has had twenty-two years of experience in this line of work, has been engaged, and is now in the city.

The Gurney Refrigerator Co. are now getting out samples for the new company, and as soon as the refrigerator season is over, work will be pushed on the new line during the entire summer months.—*Fond du Lac (Wis.) Commonwealth.*

All About Mail Boxes.

W. C. Heller & Co., Montclair, N. J., whose names have become synonymous with Steel Hardware Shelf Boxes, have issued a brief statement describing the construction of these articles, quality, etc. They state that they will be pleased to quote prices upon receipt of a list of the boxes desired, and will also mail a sample box on receipt of 25 cents in stamps. They further say:

We make the boxes with white wood, pine, North Carolina pine, oak, ash, or cherry fronts and backs, painted, stained, or varnished if desired. We make them any size to fit your shelving at no extra cost. The fronts and backs are ¼ inch thick, the sides and bottom are pressed of one piece of the best patented rolled galvanized steel. The steel is embedded in the wooden ends by our own process, and secured by steel wire brads driven from the inside, thus making a box that has no nails on the outside or rough edged to tear the shelving. A depression on the right hand side near the front, which is enameled, upon which the cost and selling price of the contents of the box can be marked, (marks can be rubbed off and changed at any time without injuring enamel). Twenty per cent. shelf room is saved by using these boxes, they also give better satisfaction and service for money invested in them than any other box made. As evidence of their worth and advantage, we refer to the many Hardware dealers who are using them in the United States, Canada, England, Germany, South America, and South Africa. We fill all orders promptly, make no charge for crating, and guarantee boxes to reach you in same condition as they leave our factory.

A Belt Dressing.

"It is the slipping heel that wears the hole in the stocking, and it is the slipping belt that wears the leather. Belts that slip not only do not drive properly, but they wear out rapidly. A belt that is too tight is over-strained, and will also wear out rapidly. A thoroughly reliable belt dressing is therefore a necessity in every well regulated factory, and probably no dressing has such a world-wide reputation as Dixon's Belt Dressing and Leather Preservative. As long ago as 1878 it was used on the big driving belt at the Paris Exposition, when other means had failed to make the belt take hold of the pulley that was to start the thousands of feet of shafting and hundreds of machines." Those who use Dixon's Belt Dressing claim that it prevents slipping and thoroughly preserves the life and elasticity of the belt. It is made only by the Joseph Dixon Crucible Co., Jersey City, N. J., who are known the world over for their graphite products.

Charles Morrill, No. 35 Warren St., N. Y., the manufacturer of Morrill's Saw Sets and other specialties, has made his export quotations conform entirely to those given the home trade. He does this in justice to his patrons and the trade in general, feeling that, as the pioneer manufacturer in this class of specialties, which has obtained the confidence of the dealers, he wishes the trade to know that no concessions are obtainable by orders given solely for an export demand that are not also within the reach of every domestic patron of his, now selling his production, his motto being: "Justice to all and partiality to none."

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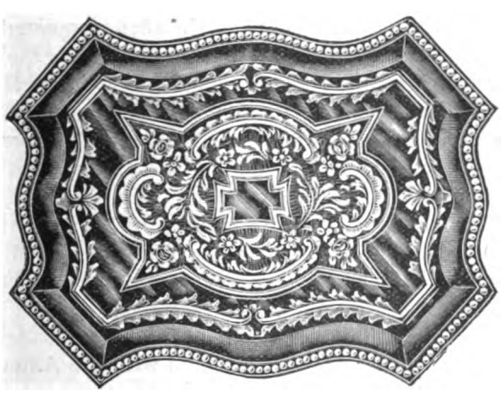
THE W. H. SWEENEY MFG. CO.

One of the most interesting manufacturing growths of this country has been the development in a comparatively short time, from a state of crudity to that of artistic and economical perfection, of the manufacture of tin and copper ware. It is well within the memory of most of us



when the finer lines of this industry all bore the stamp of foreign manufacture.

Some twenty-two years ago (in 1876) there was established in Thirty-sixth Street, New York, by Mr. W. H. Sweeney a small factory wherein he undertook the production of tin, brass, copper and nickle-plated goods. By introducing the most improved machinery success, attended his efforts, and five years later, in 1881, the business was incorporated under the name of The W. H. Sweeney Mfg. Co. Increasing business demanding additional facilities and space, the new firm established itself at No. 240 Water Street, and later, requiring still more space, a branch factory at Nos. 26 and 28 Cherry Street. In 1894, finding even these factories inadequate to their demands, the firm decided to combine their entire manufacturing plant under one head and secured the large factory at Nos. 66, 68, 70 and 72 Water Street, and 51 Front Street, Brooklyn, where it has grown to such dimensions that its four story house is now taxed to its utmost to hold their large plant. Twice within the past year has it been necessary to increase the working force until it stands three times greater numerically than it then did. This increase involved a corre-



sponding one in plant, and accordingly the most improved machinery was added, while the inadequate shipping facilities were remedied by the installation of chutes, under which the wagons drive and receive their loads "while they wait."

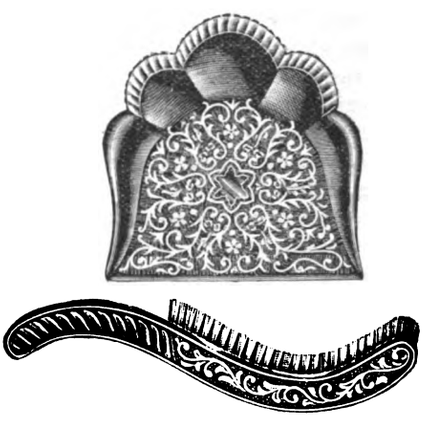
But if the factory growth has been worthy of extended mention, the growth in popularity of the goods has been no less so. In the trade the name of the W. H. Sweeney Mfg. Co. means a guarantee of quality, and the reputation of their products as quick sellers is a trade proverb. The latter qualification is due to more than one cause. Probably the greatest factor is the unswerving policy of the



firm never to place a line of goods that does not thoroughly merit the representation made of it. The fact that the hardwareman who handles the W. H. Sweeney Mfg. Co.'s goods may rest assured that none of his customers will return to complain of defects is one of the most potent reasons for always finding these handsome lines in his



stock. Another and most important cause of the well deserved esteem in which these goods are held is the artistic merit of their design. No field of mnnufacture gives a wider scope to the eyepleasing effects, and this is taken advantage of to the greatest possible extent. From the least pretentious tray to the most elaborately engraved



coffee pot the design is studied and made pleasing at any cost save that of utility and it is with justifiable pride that they point to their Carpathian trays, of which they are the sole manufacturers. Some idea of the excellence of these goods may be obtained from the cuts herewith presented

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but to be thoroughly appreciated the goods must be seen. Even then the closest inspection is required to distinguish the fine nickel finish from silver-plate.

Not by any means the least important part of the organization of this model business is the staff of twenty outside representatives who cover the United States and Canada; and the magnitude of the output may be judged by the quantity such a large force of travellers must dispose of to make their services remunerative.

By the advantage gained from a plant of the latest and most approved design, much of which is the Company's own invention, and from the enormous annual production, foreign competition is more than met. A perusal of their catalogue, in which are illustrated their different lines of coffee pots, tea pots, tea kettles, wash boilers, cuspidors, funnels, measures, trays, dust-pans, mugs, flue stoppers, pipe rings, stove-boards, etc., will demonstrate the fact that their prices leave nothing to be desired. A request to the firm at their Brooklyn address for catalogues will be met with a prompt response.

The Storm Mfg. Co.'s New Purchase.

The Storm Mfg. Co., manufacturers of elevators and dumb-waiters, Newark, N. J., make the following important announcement under date of March 16, 1898:

We beg to announce herewith to our friends, customers and the trade in general, that we have purchased the dumb-waiter and elevator business of the F. S. Hutchinson Co., of New York City, manufacturers of the Paragon Self-Retaining Dumb-Waiters and Elevators, and in the future they will be made only by us.

These dumb-waiters and elevators added to our present large line of goods, gives us without question the most complete and largest line of dumb-waiters and elevators made by any concern in the world.

We take this opportunity to return our thanks for the liberal patronage we have enjoyed in the past, and to say we shall endeavor to merit its continuance.

Newark, N. J., March 16, 1898. THE STORM MFG. CO.

New York City, March, 16, 1898.

Referring to the above, we desire to thank our customers for their many favors, and would say that in disposing of our business to The Storm Mfg. Co., we believe it has passed into the hands of a concern that, with their large and unexcelled facilities, will maintain the high standard of these machines in all respects, and trust that our former friends will bestow their business on our successors.

THE F. S. HUTCHINSON CO.

The Value of Good Credit.

BY T. H. GREEN.*

A good credit is something worth striving for, and when attained the possessor may rightfully feel a just pride in the fact that he possesses the confidence of those with whom he deals. A good credit standing properly used is an acquisition of unlimited value, but when abused it becomes one of the worst curses that can be entailed upon an individual.

It should not be inferred because one is in good credit standing that he is entitled to unlimited credit or that his honesty is called in question should the jobber or manufacturer place a limit on the amount he is willing the merchant should owe him. It must be borne in mind that honesty alone will not pay debts. One may be absolutely honest and not able to pay. The fact that he does not pay is not an evidence that he is dishonest. It will readily be seen that one's ability to pay must be taken into account as well as his honesty.

To obtain and maintain a good credit, it is essential that the merchant, in addition to having capital, be it large or small, should be honest, capable and industrious, and should have a just appreciation of the rights of those of whom he seeks credit. If he possesses these qualities he will have no trouble in obtaining all the credit his business demands. There is danger, however, that he may be led thereby to overstep the bounds of prudence and load himself with debt for goods on his shelves in excess of the legitimate requirements of his business, which state of affairs is likely to lead to effort by sales on credit, often injudiciously extended to relieve the pressure, or to establish branch stores for the same purpose, both of which means only add to the burden and usually lead to failure.

If credit is extended at all by the retail merchant, it should be upon distinct terms as to time of payment, and only to those who are known to be worthy of credit, and prompt payment at maturity should be insisted upon.

The retail merchant should pay his bills promptly at maturity, if he does not discount them. Otherwise the jobber of whom he buys on credit is in reality the one who bears the burden of the unpaid accounts of those who have no claims upon him and in whom he has no interest. The jobber's rights are thus invaded and the credit of the merchant suffers.

It is very important to every retail merchant that he keep his business well in hand, the details properly looked after, the stock well insured, expenses carefully guarded, his debts within easy control and his collections promptly looked after. Failure is not likely to come to those who appreciate the value of a good credit and who take the proper means of meriting and retaining it.

* Mr. Green, of Tolerton & Stetson Co., Sioux City, Iowa, is treasurer of the National Hardware Association of Credit Men, and also chairman of the Business Literature Committee.

"Friction and Lubrication."

The Jos. Dixon Crucible Co., Jersey City, N. J., have published an attractive pamphlet of a half-dozen pages, bearing the above caption, and filled with information of value to anyone interested in the using or the selling of lubricants of any character, or the handling or use of machinery on which the same are used. This is not merely a description of the line of lubricants made by this company, but is a practical, scientific discussion and explanation of all the points connected with practical lubrication. Among some of the headings are: "The Theory of Friction," "How Oil Lubricates," "Friction in Lubricants," "Friction Tests Made for Comparison," "Bearing Surfaces," "High Speed and Great Power," "Tests of Graphite," and "How Graphite Prevents Friction." They will not only send this pamphlet to anyone wishing the same, but say they will be glad to send without charge, samples of graphite, and interesting information as to where Dixon Pure Black Graphite has been most successfully used.

Gridley Bryant, a civil engineer, in 1826, projected the first railroad in the United States. It was built for the purpose of carrying granite from the quarries of Quincy, Mass., to the nearest tidewater. Its length was four miles, including branches, and its first cost $50,000. The sleepers were of stone and were laid across the track eight feet apart. Upon rolls of wood, six inches thick, wrought iron plates, three inches wide and a quarter of an inch thick, were spiked. At the crossings stone rails were used, and as the wooden rails became unserviceable they were replaced by others of stone.—*Ladies' Home Journal.*

G. H. Jantz, who has been identified with the American Wringer Co., with headquarters on Chambers Street, New York, has been promoted to the position of assistant manager of that company, and now occupies the position formerly filled by J. F. Hemenway, who is connected at present with the Smith & Hemenway Co., No. 10 Warren Street, New York. Mr. Jantz will hereafter be found at the headquarters of the company, No. 99 Chambers Street, New York.

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Recent Trade Publications.

The Iver Johnson's Arms & Cycle Works, Fitchburg, Mass., and No. 99 Chambers Street, New York, have recently issued their cycle catalogue, which is a handsome specimen of the printer's art. For over a quarter of a century they have been engaged in the manufacture of fine metal products, and the experience gained in the intricate work of their fire-arm construction has been of incalculable value to them in cycle building, in which latter industry they have been engaged for the past thirteen years. With ample capital, unexcelled facilities, and a determination to lead, they are in position to command the large patronage with which they are favored. In the construction of their cycles they claim to use only materials which are subjected to the most crucial tests before same are approved. They realize that good material alone is not sufficient for the production of a perfect cycle; it must be coupled with great mechanical skill, and an accurate knowledge of the cyclist's needs. They have made several additions to their line this season, and now have an assortment of cycles that is at once complete and practical. They list a racer and a special light roadster at $85 each; special roadster, in gentlemen's and ladies' models, at $75; also a diamond frame and a convertible tandem at $100 each. They have a gentlemen's and ladies' roadster, in their regular Iver Johnson type, listing at $50. To these is added the Fitchburg line which consists of roadsters, in both ladies' and gentlemen's models, listing at $40 each. Among the many improvements on their cycles this season, none possess greater advantages than the rear hub brake which they fit to their chain cycles, either as part of the regular specifications or as an option. They present, in this device, a simple yet powerful brake—one which gives the rider instant and complete control of his machine—and this, too, without changing the position of hands or feet, or any conscious effort on his part. It is absolutely automatic in its operation, requires no motion to apply or release, the steepest hills may be ridden with safety, or the wheel may be brought quickly to a dead stop without jar or strain, pressure on the bearings, or danger of unseating the rider. All strain is transferred from chain and sprockets to the frictional surfaces, thus relieving the bearings from wear and tear. The brake will be appreciated by all riders, for it makes control of the wheel easier, is neither cumbersome nor unsightly, and adds much to the safety and pleasure of cycling. Knowing that there are riders who prefer an enclosed chain model to a chainless machine, they have arranged for the use of a gear case on their $75 bicycles, and fit the same at a slightly additional cost. It is light, simple and practical, and affords complete protection to the chain against dirt, dust and water, and saves the wheelman much trouble and annoyance.

The Russell & Erwin Mfg. Co., New Britain and New York, have recently issued a small "handy size" catalogue of thirty-eight pages, within the contents of which is embraced the line manufactured by them, of Wrought Steel Locks and Lock Sets, which they can now furnish in Oroide and eight different finishes. In this convenient pamphlet these goods are ilustrated fully by the use of half-size illustrations, with full descriptions, and is well printed on excellent paper. In their introductory remarks the company refer in this publication to new improvements, as follows: "In presenting this pamphlet, illustrating the development of our new and important departure in the manufacture of Door Locks from Wrought Steel, we call the attention of all dealers, architects and builders to their many advantages. The goods excel in lightness and strength, in beauty of design, and novelty of finish; and, being made from wrought metal, are uniform in size and exact in measurement. Attention is also called to the strikes for rim locks, as shown in illustrations, the improvement in which is the added security of a flange extending over the door-casing, through which a screw is fastened at right angles with the usual screws, preventing the possibility of its being forced or taken off when the door is locked. By the use of perfected methods, for which we own letters patent, we are enabled to supply these goods from wrought steel in competition with those made from cast iron. That the mechanical construction of our wrought steel locks is satisfactory is attested by the quantities sold during the last nine years. The purpose of the changes which we have made in them is chiefly to improve their external appearance. Our Oroide Finish is a gold-colored plate, applied to both rim and mortise lock cases. It prevents rust, betters the appearance of the locks, and should increase their salableness."

The New Departure Bell Co., Bristol, Conn., John H. Graham & Co., selling agents, No. 113 Chambers Street, New York, have just issued their 1898 catalogue of their products, in four distinct editions, which will prove the greatest novelty in the way of catalogues so far connected with the business of bicycle sundries. They have one edition, intended for distribution throughout the United States; another edition for their large and growing trade in Great Britain, and its provinces and dependencies; another for France, and the countries governed by the French people, and all these are supplemented by still another for Germany and such other points where trade is established under German influences. The novelty of this group of catalogues, calculated to grasp and hold the trade of the world, emanated from the skilled resources of the advertising manager of the company, F. A. Southwick, who was the translator, and under whose personal supervision they were inaugurated. As the prices are quoted respectively in each catalogue in the currency of the country in which it is intended they shall be distributed, there can be but little doubt of the successful issue of this pioneer method of exploiting American bicycle products. The company will be pleased to mail a copy of either catalogue upon request.

J. F. Bigelow, Worcester, Mass., patentee and sole manufacturer of the Bigelow Wire Fly Killer, is sending his patrons and the trade generally a line of very handsome and taking cards illustrating and describing the article named. In description of the article and its useful purposes, Mr. Bigelow says: "Nowadays people in civilized regions endeavor to keep the flies out of their houses by having them well screened. This keeps out the greater number of the little pests, but a few always manage to find an entrance through some crevice or crack, and half a dozen of these enterprising insects can cause about as much annoyance to the neat and orderly housekeeper, or a bald-headed man during his after-dinner nap, as the whole brood of them could do if turned loose in the room. In order to rid the house of the few flies that crawl past the screens the Bigelow Patent Wire Fly Killer has proven itself to be a boon to suffering humanity, for it dispatches the fly, or any insect in a cheap and speedy manner and leaves unspotted the most delicate wall-paper or ceiling. The air passes perfectly between the strands of the wire broom, and the fly feels no pressure and cannot escape, consequently you never fail to bring down your small game."

Sargent & Co., New York, and New Haven, Conn., are distributing to the Hardware trade a thirty-four page catalogue of "Screen Hardware for 1898." The catalogue is 9x12 inches in size, and filled with illustrations and descriptions of everything possible to be found in this line in their larger general catalogue, to which is added the newer specialties placed on the market since the large catalogue was issued. It is a very suggestive compilation of good things for the spring and summer seasons, and should be in the

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hands of every dealer handling such goods, to be made useful when "fly-time" arrives in dead earnest. A discount sheet accompanies the pamphlet.

The Remington Arms Co., Ilion, N. Y., and No. 315 Broadway, New York City, have issued a leaflet in which they say: "The many inquiries we have had for a small bore sporting arm, embodying the Remington system, and adapted to smokeless powder cartridges, have determined us to introduce to the public the No. 5 Remington Rifle. The barrels, frame, and lock mechanism are constructed of selected material especially designed to resist the enormous strain developed by the use of modern high explosives. We believe this rifle will meet the growing demand for a light well-balanced weapon of simple mechanism and great penetration, adapted to any climate. The No. 5 Remington Rifle will be adapted to the 30|30, the 30 Government, and the 7m|m Cartridges, and will be listed at $18 in our Spring Catalogue." On the reverse of the same they say: "Together with the marked tendency toward the small calibre rifle has occurred a less noticeable trend toward the small bore gun. To meet the demand among sportsmen, we have included a 16 gauge in both our hammer and hammerless styles. The enduring reputation of our hammer gun, and the wide and rapid popularity which the Remington Hammerless has scored, justifies the extension of our line in the direction of popular demand."

The Bryan Mfg. Co., Bryan, Ohio, manufacturers of wheelbarrows, have issued a very attractive leaflet illustrating and describing their Champion No. 10. The chief point in connection therewith lies in the quotations which are reproduced in a large number from dealers all over the country, from Atlanta, Ga., to Kokomo, Ind., who have handled the goods made by the Bryan Co. An illustration of one of their lines will be found elsewhere in this issue, and full particulars will be sent by them on application.

Biddle Hardware Co., Philadelphia, Pa., have recently issued a very complete catalogue covering their line of "Wiuchester" and "Vindex" Bicycles, and a full and complete assortment of bicycle sundries, including every possible requirement to make their customers' stocks equal to every demand that might be made upon it. This catalogue is printed on good paper, filled with excellent illustrations, and consists of fifty-four pages, with an attractive cover.

The Russell & Erwin Mfg. Co., New Britain and New York, have just issued under date of March 15th the revised list prices and discounts, No. 7, to be used in conjunction with Catalogue Volume VIII, 1897, supplement No. 2 and Columbia supplement, forming a pamphlet of fifty-seven pages and covering in its contents a number of important changes and additions.

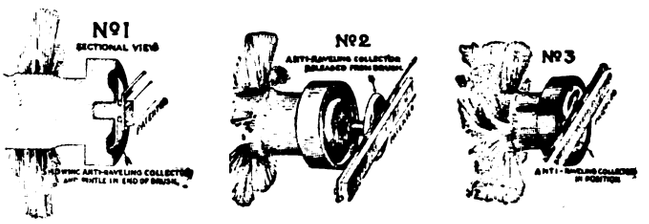
Compressed Cork Grips.

The Codling Mfg. Co., of Bristol, Conn., make a specialty of bicycle grips and their Compressed Cork Grips, an illustration of which may be seen upon page 49 of this issue, are articles which are finding their way into the market, especially among Hardware dealers who handle bicycles and bicycle material, with great success. These are made lined or unlined, as desired, in all sizes, and with every style of grip. The manufacturers inform us that they use nothing but high-grade goods, make prompt shipments without delay, and are now turning out 5000 pairs per day. This is an indication that the bicycle business for 1898 is to be of a very lively character.

Like seed, the better an advertisement is the more fruitful will it be. A poor advertisement cannot be expected to produce good results.—*Hardware & Metal.*

Bissell's "Anti-Raveling Collector."

The latest patented improvement announced by the Bissell Carpet Sweeper Co., the "Anti-Raveling Collector," is a small circular concave disc, fitted at the ends of the sweeper, operating in a groove in the brush pulley, to prevent all hair, thread and ravelings from winding on the ends of the brush support or from filling the holes in the ends of the brush, thus preserving the free action of the sweeper, and sparing the user a great amount of labor and annoyance. They say: "Many attempts have been made in the past to produce something that would protect the brush journal, but not until the introduction of our device



was there ever devised a satisfactory preventive to dust and ravelings getting into the holes in the ends of the brush and making the sweeper run hard, and this great nuisance to housekeepers in the use of a sweeper has been completely overcome by our recent invention. The Anti-Raveling Collector is one of the most valuable improvements ever made in a carpet sweeper, except cyco-bearings." The Bissell Carpet Sweeper Co. purpose utilizing this great improvement in connection with all their high grade sweepers.

The American Steel & Wire Company.

It having been found impossible to reconcile estimates of value on a number of the plants desiring consolidation, the protected gigantic combination of manufacturers controlling the output of the manufacturers of wire, with $87,000,000 capital, has fallen through. Several of the companies however, believing it would have a beneficial effect as to profits arising from economy of manufacture and a combination of executive details, have formed a smaller organization with a more limited amount of capital than was originally contemplated.

This new company, under the name of the American Steel & Wire Company, will commence operations in a corporate way about April 1st.

The companies of which the new corporation will be composed are as follows: The Consolidated Steel & Wire Co., with seven plants, one at St. Louis, two at Joliet, one at Cleveland, one at Beaver Falls, Pa., one at Pittsburg, and one at Allentown, Pa.; the I. L. Ellwood Co., having two plants at Dekalb, Ill.; the American Wire & Nail Co., one plant at Anderson, Ind.; the Salem Wire & Nail Co., with two plants, one each at Findlay and Salem, Ohio; the H. P. Nail Co., one plant at Cleveland Ohio,, and the American Wire Co., one plant at Cleveland, Ohio.

The companies in the original plan of operations and now left to go alone, are the Washburn-Moen Co., with plants at Worcester, Mass., and Waukegan, Ill; the Newcastle Wire & Nail Co., Newcastle, Pa., and the Oliver Co., Pittsburg, Pa.

It is hoped and believed that stability to prices will prove more certain under the management and sustaining of a strong company with a combination of interests deeply interested in maintaining a regular market. A diminished competition will result therefrom, and under prosperous conditions especially greater security will be felt in quotations governing current sales.

Higher prices than those obtainable at present, will undoubtedly follow the announcement that this new company is prepared to do business under these more encouraging auspices.

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BRITISH VS. AMERICAN BICYCLE TRADE.

In his annual report, to be printed in *Commercial Relations*, Consul Parker, of Birmingham, England, under a recent date, says:

The one marked development in this district during the past year has been in the cycle trade. From July 1, 1896, to January 1, 1897, this was very rapid. Productive power was immensely increased. Small establishments developed almost without notice into large ones, with an unsuspected capacity for turning out bicycles. The result was that the speculative interest became so dominant as to confuse the result, and produced an overdevelopment not only of manufacturing facilities, but of company promoting. This induced some neglect of selling effort and a disposition to underrate the possibility of competition, especially from the United States. In spite of the increased use of bicycles all over the world, the result of this was soon apparent in the comparative decline of exports. This did not affect the trade with the United States, because hardly any complete bicycles have been sent since the beginning of 1894. There was a determined maintenance of prices, but very little effort to make a good bicycle at such a cheap price as would bring it within the reach of workingmen. The British foreign trade in bicycles for the calendar year 1895 was $6,747,012.93: for 1896, it was $9,056,420.23; for 1897, the returns are not yet complete, but from January to September, inclusive, the most important portion for the bicycle trade, there was a falling off of more than 13 per cent. If this rate should continue over the whole year, the exports wonld amount to about $7,877,275.22.

So rapid was the growth of the bicycle industry during the period mentioned that large numbers of workmen were drawn from other lines, and the rate of wages advanced very rapidly in this and allied trades. This drew into the bicycle industry a large number of men who had had no training in this particular branch, to the temporary injury of others. Some of the latter found themselves, almost without notice, losing trained and experienced workmen, or were compelled greatly to increase the rate of wages paid them. It would probably be safe to say that the predominance of the bicycle manufacture in this district during the past two years resulted in an increase of probably 20 per cent. in the wages of skilled laborers in many of the established metal branches. Some of this advance will now probably be lost, because, as the making of bicycles becomes a settled business, it will not require the services of such a large number of men, so that many of the new ones will be compelled to seek employment at their old trades. Besides, the use of the best American machinery has increased very rapidly, thus displacing hand labor more and more.

This apparent neglect of opportunity, with its failure to recognize existing conditions, was coincident with a remarkable export movement from the United States. During the past two years, ending in each on June 30, the total exports of cycles and parts from the United States and those to the United Kingdom are shown in the following brief table:

EXPORTS OF CYCLES AND PARTS FROM THE UNITED STATES.

Description.	1896.	1897
Total	$1,898,012	$7,005,323
To the United Kingdom	613,392	2,375,675

Not only has the total export of American cycles increased by nearly 300 per cent. in one year, and that to the United Kingdom in about the same ratio, but the demand from British colonies or markets, heretofore held almost exclusively by British manufacturers of cycles, was greater by more than 175 per cent. during the period named.

Thus the export of bicycles from the United States, insignificant two years ago, has grown to proportions almost as great as those of the United Kingdom, in spite of its earlier development and immense capital and facilities. There are indications that the conditions are now fairly appreciated by the British manufacturer, and that he will not so easily be caught again; but, as the manufacturers of the United States are not likely to surrender without a struggle the advantages incident to two years of successful trading, the former must now fight to retain what he has, to say nothing of getting back what he has lost.

The exports from the United States of other manufactures which without exception show an increase, but are not classified by countries of destination, are brass goods, clocks and watches, glass and glassware, lead and its manufactures, steel rails, iron and steel plates and sheets, wire, printing presses, typewriters, nickel, tin and zinc. An analysis of the exports from the United States also show that our manufacturers are rapidly increasing the sale of the above-enumerated products in the British colonies, especially in Canada and Australasia. In addition to the increase in these articles, they are also extending their trade in cotton goods, leather, boots and shoes, and furniture in these markets, which the British manufacturer has hitherto held. In some articles, notably in typewriters, the people of the United Kingdom are no less dependent upon the United States than are the people of the latter, there being no acceptable machine of any other make.

If one might make a suggestion to manufacturers, it would be not to seek to enter a market, especially one where competition is so sharp as it is here and in the larger colonies, without the most careful investigation made in the most improved manner by the best equipped men in each line of trade. It is only in this way that goods can be sold in an old country. The tastes of the people must be consulted at every turn. It would be useless, for instance, to offer in England bedroom suites which were merely the surplus of those made for the home market, because the demands are entirely different; and yet there is perhaps nothing for which the demand would be more steady than for products in wood.

Houses Without Chimneys.

It is curious, though true, that of all the houses, dwellings, stores, hotels, and other buildings that dot the island of Key West from one shore to the other, not one of them has a chimney or anything that will answer the purpose of a chimney. Handsome residences and lowly hovels are alike in this respect, and from an eminence gazing out over acres of roofs on all sides one is struck with the want of something to complete the symmetry of the picture. Wood and coal or fuel of any kind are unknown quantities, as the tropical atmosphere furnishes all the heat required, and for cooking purposes sticks of carbon are used, which are sold by peddlers, who hawk their wares about the streets. —*Atlanta Constitution.*

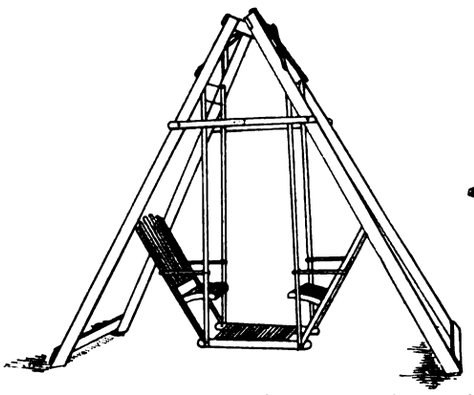
The trade marks of Messrs. Rodgers—the star and Maltese cross—were granted in 1682. So highly is it prized in distant markets that for many years before legislation made commercial piracy increasingly difficult, the firm spent £1000 a year in defending their mark against foreign rivals who struck it on their own goods.—*Exchange.*

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NEW GOODS AND SPECIALTIES.

The Alaska Lawn Swing.

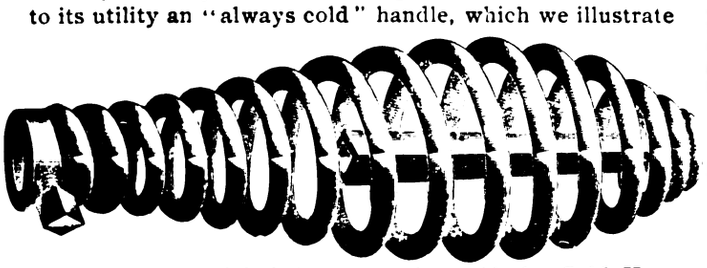
The Dain Mfg. Co., Carrollton, Mo., are offering the trade at the present time the Alaska Lawn Swing, which is one of the most desirable specialties for spring trade that the Hardware dealer could desire; not only an ornament to the premises, but useful as well, and a great favor-



ite with the children, as previous sales have abundantly proved. It is sold upon its merits, being a popular and taking swing, made of good material and well finished. It is most portable in its make-up, its construction being such that it can be easily folded, set up or taken down with the use of the least possible amount of time, making its convenience of adjustment one of its most commendable features. The seats are so arranged they can be readily placed in any required position. All of these advantages are obtained under a simplicity of construction which enables them to be offered to the trade at $3.75 net each, which should ensure a wide distribution.

The Alaska Soldering Iron Handle.

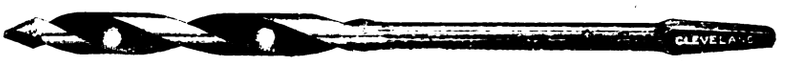
The Troy Nickel Works, Albany, N. Y., have for years been making a revolution among all the ordinary trimmings about a stove or range, from the knobs that ornament the many doors thereof down even to the poker. These essential embellishments and articles of utility, that were in old times the hottest things to grasp by a housewife, are now found "always cold" enough for comfort, through the many useful inventions and applications of this progressive company. But the latest addition to this well-known line of "always cold" articles is one that would be least expected, even as the tinsmith himself is found essentially the same as the man we remember in our boyhood days. The soldering iron has now had added to its utility an "always cold" handle, which we illustrate



herewith, and which is known as the "Alaska Cold Handle," and was the only thing needed to make the tinners' life a very happy one. It is made as all their other specialties in the handle line are, by a steel wire spiral curved and coiled in a proper shape to fit the hand perfectly, having a socket within the coil in which to place the end of the soldering iron, and possessing a collar with a set screw to enable it to be adjusted and held firmly in its place. The manner of its construction permits any form or weight of copper to be held securely, and it needs only a trial by the up-to-date tinner and plumber to make it warmly welcome, and the old pattern of handle, which has always been unnecessarily clumsy in its form, to become entirely obsolete. Write to the Troy Nickel Works for a sample, which will be forwarded on receipt of 25 cents. The handle looks as though it would last indefinitely, and as it fits any copper, bids fair to do so.

New Electricians' Bit and Fish Wire Combined.

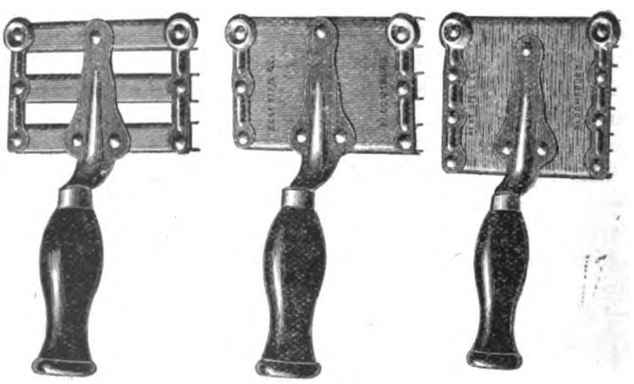
The Cleveland Twist Drill Co., Cleveland, Ohio, and No. 99 Reade Street, New York, are placing before the



electrical and Hardware trade a new and desirable article which we illustrate herewith, it being known as an "Electricians' Bit and Fish Wire Combined." It will be noticed that in its construction these bits have holes drilled through the center web of each bit. This improvement enables the electrician to fish his wire without the use of a secondary or auxiliary tool for that purpose. All bits up to and including 10-32 inch diameter, have fish holes for No. 14 wire, after the insulation has been removed. Larger bits can be furnished if required, provided with larger holes. These bits are made under Smith's patent, granted as recently as January 25, 1898. They are claimed to be made from the best quality of steel, finely tempered for the purpose designed, and very handsomely finished. They are made in even thirty-seconds, from 6-32 to 24-32 in diameter, the number of thirty-seconds constituting the List Number by which they should be ordered, and 12, 18, 24, 30 to 36 inches in length. At the New York office, which is under the management of C. I. Markham, a full and complete stock of the products of this company, including the bits described above, will at all times be found in stock.

Harman's American Curry Combs.

S. S. Harman, Bloomsburg, Pa., Surpless, Dunn & Co., sole agents, No. 55 Warren Street, New York, are placing before the Hardware trade a line of curry combs which have met with popular approval and will establish a place for themselves founded on careful construction, commendable patterns and salable styles. They are manufactured

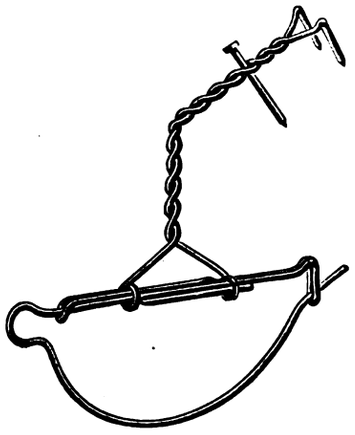


from sheet steel, in open back and closed back styles, carefully handled with ferrule to strengthen it, well riveted and giving every evidence of durability and strength. We present herewith illustrations conveying a general idea of their appearance. Quotations for these goods will be promptly furnished the trade upon application to the home office or that of their sole agents in New York.

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Bell's Eave-Trough Hanger.

Jno. W. Bell & Co., manufacturers of wire goods specialties, Mercer, Pa., have recently added to their line the article herewith shown. This is an Eave-Trough Hanger, which is made of two pieces of galvanized wire. The bar across the top is composed of three wires so arranged and bound together as to get the greatest strength possible. The roof wires leave the bar separately and reach a short



distance from the centre, and are twisted together to form the roof-piece, each terminating in a pointed driving hook. It is claimed that by this peculiar construction a hanger is produced which is exceedingly stiff and strong, that it can be quickly and easily put on the trough, and that it is very convenient to adjust and fasten to the roof. The manufacturers offer to mail a sample of it to persons who are interested. A patent has been applied for.

Young's Rim Sprocket.

Barkelew & Kent, No. 26 West Broadway, New York, who are the proprietors of the Bicycle Saddle Exchange, are placing upon the market Young's Rim Sprocket, of which we give an illustration herewith. This invaluable appliance is being used extensively throughout the United States as well as abroad, as a changeable gear. They are made to fit over the sprocket wheel, without removing sprocket or pedals. They are correctly milled and finely nickeled, and the makers guarantee them not to break, bend or work loose when properly adjusted. There is no drilling necessary to be done. To put on this rim sprocket it is only necessary to put one tooth of your sprocket in the notch in the rim; the other points all go between the teeth of the sprocket. Should the points prove too long



to fit on the sprocket, file them off a little. It is desirable that it should fit snugly; the four bolts are then placed in position, requiring but a few minutes, and the job will be found complete. They are made in all the various sizes needed for 3-16, ¼, 5-16 and ⅜ chain, and to fit any especial sprocket from 14 tooth to 25 tooth. Prices will be given upon application to the manufacturers as above.

Baker's Patent Steel Picket Fence.

The Baker Mfg. Co., Allegheny, Pa., who are manufacturers of elevator enclosures, bank and office railings, window guards, etc., are placing upon the market the Baker Patent Steel Picket Fence, an illustration of which is given herewith. It is constructed entirely of steel. The top and bottom rails are made from angle steel, and the pickets from twisted steel, forming a combination which makes the fence durable and strong while economical in point of



price. It is a style of fence quite easy to handle, and simple in construction, all the parts fitting so perfectly, any ordinary workman can erect it with ease and efficiency.

The Merchant's Rating.

There are many merchants both large and small whose credit ratings are not what they ought to be; at least, they are not what the merchants think they should be. Investigation, however, shows that in most cases, if not in all, the fault lies with the merchants themselves. One prime cause for the merchant's failure to secure the rating to which he believes he is entitled is the lack of information furnished with reference to his financial condition. Some merchants refuse all information whatever, upon the assumption, apparently, that their resources are so large as to make them independent of credit ratings. Such a position is extremely foolish. The world is prone to accept a man at his own valuation until such time as it has had the opportunity to demonstrate an error. Silence leaves the world to form its own opinion, and at this date it is very apt to conclude that because no statement is made there must be something to conceal. On the other hand, a statement frankly made and demonstrated to be correct carries opinions to the other extreme, and gives the merchant the full measure of credit to which he is justly entitled.

Several points are considered when ratings are established, in addition to capital or present worth. These include the broad questions of business integrity, of general business methods, and of habits with respect to payments. Of two men, equal in all other respects, one discounting his bills and the other habitually paying slowly, the first will have the better rating as to credit, even though the capital ratings of the two are essentially the same.

Merchants formerly bought their goods in person. They journeyed to the warehouse and factory to make selections, and thus came into direct contact with those of whom they asked credit. Now purchases are made through intermediaries. The merchant's orders are given to traveling salesmen or are forwarded by mail or telegraph. The merchant, then, should not overlook the fact that in the changes which have been made in the methods of conducting business, changes also have necessarily been made in the methods of establishing credit or determining a rating. A signed statement to-day takes the place of the personal interview of a few years ago.

The great commercial agencies that make a business of ratings are only an instrumentality that modern business has found it necessary to employ in order to meet changing conditions. The merchant who does not have the rating to which he thinks he is entitled should commence to remedy the wrong by a careful study of the situation. In the end he will be quite willing to comply with the reasonable requirements of modern jobbers and manufacturers, some of which are here pointed out. A. O. KITTREDGE.

The C. A. Baynon Co. have succeeded to the jobbing and commission business in Hardware and analogous goods, formerly done under the name of the Woolley & Baynon Co., at Nos. 97-99 Reade Street, New York. C. Arthur Baynon is president, and E. F. Drake, secretary-treasurer.

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Review of the Markets.

Hardware: An increasing business growing daily more satisfactory in volume, is reported for the month, Spring goods being in demand resulting from the pleasant weather we have enjoyed through March with but rare exceptions.

The Wire Nail interests have suffered temporarily from the abandonment of the larger consolidation anticipated; but the formation of the small organization will improve the market price, stimulate freer purchasing of this important staple, and act in a beneficial way to give stability to necessary conditions of business.

Wire Nails: Ever since it became evident the combination among the many manufacturers controlling the wire interests could not be consummated, a weakness has existed in the quotations on wire nails, which has made a lower price obtainable than has been previously possible for a long time. It is extremely difficult at this time to state definitely whether the present low quotation will last very long, but purchases for the past two weeks have not been very heavy, and as the demand will necessarily soon become more brisk, a few early sales of moment may effectually brace the market against any further decline of importance. The minor consolidation of mill interests soon to commence operations, will no doubt assist in this consummation and serve to steady the market. The competition existing between the mills has made many reports of low prices mentioned, which upon investigation fail to be substantiated. We quote for carload lots, f. o. b., mill, $1.40; New York prices for carload lots on dock, $1.55, and for smaller lots from store, $1.65.

Cut Nails: The market for cut nails exhibits no movement calling for extended comment. Business has been of a limited character and quotations the same as have obtained for some time. New York quotations are $1.20 for carload lots on dock and $1.30 for smaller lots from store.

Copper Rivets and Burrs: The improved conditions surrounding the copper market have materially strengthened the quotations on Rivets and Burrs. Prices are firmly held, and the discounts named according to quantity, are 60 & 10 @60, 10 & 10.

Sheet and Bolt Copper: These goods have been held lately at advancing quotations which have settled at an advance over prices previously noted, of fully 1 cent a pound.

Brass Wire, Sheet Brass, etc.: The manufacturers have recently advanced prices on these goods covering the entire line, the higher prevailing price at which copper has been sold recently, under extremely large transactions, making the change unavoidable. The quotations here given apply only to quantities of 100 pounds or over in one order:

Roll and Sheet Brass	Per cent.	40
Patent Leveled Sign Brass	"	30
Platers' Metal, thinner than No. 38	"	40
Slitting Charges (Brass)	"	40
Sawing Charges (Brass)	"	40
Jewelers' or Gold Metal	"	40
Printers' 2x4 Sheets and Galley Sheets	"	40
High Brass Rods	"	40
Wire in Coils (No. 20 or coarser), excepting Copper Wire.	"	40
Spooling Wire (Brass)	"	40
Brazed Brass Tubing	"	45
Brass Moldings	"	45
Door Rail	"	45
Iron Lined Brazed Tubing	"	47½

Terms of payment net cash 30 days, or ½ per cent. off for cash in ten days from date of invoice.

Strap and T-Hinges: Revised list prices on this important line have been in contemplation for some time. Under date of March 15th they are announced as follows:

LIGHT STRAP HINGES.

Inches	3	4	5	6	7	8	10	12	14
Per dozen pairs	$1.35	1.80	2.20	2.85	3.45	4.00	5.50	8.00	10.50

HEAVY STRAP HINGES.

Inches	4	5
Per dozen pairs	$2.45	3.30

Inches	6	8	10	12	14	16
Cents per pound	23	21	20	20	20	20

LIGHT T HINGES.

Inches	3	4	5	6	8	10	12	14
Per dozen pairs	$1.15	1.25	1 55	1.85	2.35	3.45	4.70	6.10

HEAVY T HINGES.

Inches	4	5	6	8	10	12	14
Per dozen pairs	$1.95	2.25	2.70	3.40	5.00	7.00	9.60

EXTRA HEAVY T HINGES.

Inches	4	5
Per dozen pairs	$2 80	3.85

Inches	6	8	10	12	14	16
Cents per pound	24	23	21	21	21	21

LONG CHEST HINGES.

Inches	6	8	10	12
Per dozen pairs	$1.00	2.10	2.80	4.10

HINGE HASPS.

Inches	3	4½	6	8	10	12
Per single dozen	$0.85	1.05	1.35	1.80	2.60	3.55

CRATE HINGES AND HASPS.

Crate Hinges, 3 inch ..... $1.00 per dozen pairs
Crate Hasps (single swivel), 3 inch ..... .85 per single dozen

These list prices are subject to trade discounts as follows:

Light Strap Hinges	75, 10 and 5%
Heavy " "	80% and 10%
Light T Hinges	70%
Heavy T "	75 and 5%
Extra Heavy T Hinges	80%
Long Chest Hinges	60 and 10%
Hinge Hasps	60 and 10%
Crate "	60 and 15%
" Hinges	75, 10 and 5%

The changes advance net prices materially, but the list prices are now arranged so that one uniform discount is no longer possible, each style having its own quotation.

Corrugated Strap and T Hinges, etc.: The Stanley Works, New Britain, Conn., and New York, in harmony with the quotations above named, make the following revised list prices on their Patent Corrugated Steel and other special Strap and T Hinges:

CORRUGATED HEAVY STRAP, NO. 935.

Inches	4	5	6	8	10	12
Per dozen pairs	$2 45	3.30	4.70	7.20	10.80	16.00

Discount, 80&10%.

CORRUGATED EXTRA HEAVY T, NO. 937.

Inches	4	5	6	8	10
Per dozen pairs	$2.80	3.85	5.05	8.40	11.25

Discount, 80%.

HART'S PATENT LIGHT STRAP, NO. 928.

Inches	8	10	12
Per dozen pairs	$1.70	2.30	3.90

HART'S PATENT HEAVY STRAP, NO. 929.

Inches	4	5	6	8	10	12	14	16
Per dozen pairs	$1.00	1.25	1.75	2.85	4.25	6.00	7.50	8.75

HART'S PATENT EXTRA HEAVY T, NO. 931.

Inches	5	6	8	10	12	14	16
Per dozen pairs	$1.70	2.10	3.35	4.85	7.00	8 30	9.50

Discount, 20&10%.

WELLS' PATENT HEAVY STRAP, NO. 925.

Inches	6	8	10
Per dozen pairs	$1.75	2.85	4 25

WELLS' PATENT EXTRA HEAVY T, NO. 927.

Inches	5	6	8	10	12	14
Per dozen pairs	$1.70	2.10	3.35	4.85	7.00	8.30

Discount, 20&10%.

THE CHICAGO TRADE.

We have hardly time to answer your inquiry about trade, for the very good reason that we seem to be having a regular boom in the way of orders, and even with our largely increased force of help, and an extra amount of space, which we have lately secured, the immense amount of business that has lately come to us gives us all that we can possibly do, even though we are working day and night.

Our only regret is that the margin at which goods are sold in the Hardware line seems to be smaller at the present time than there is any occasion for.

With few exceptions, everything in the Hardware line seems to be cheaper than ever before in the history of our business. But, in so far as the bulk of the business is concerned, we have no fault whatever to find, for we have never experienced anything like it.

The war scare has had no effect whatever in checking business; as a matter of fact, we feel that the condition of both the retailer and consumer of Hardware is so much more substantial and well intrenched, with the best of reasons for their keeping up stock, that even though a war might take place between this country and some foreign nation, we feel that with the good start business has attained this spring, the Hardware trade of the West would enjoy plenty of activity right through the balance of the year.

Some of our manufacturing friends have withdrawn prices, which is an indication that the market prices may become firmer in the near future, and certainly the large

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amount of steel, iron and other material that the government is using at the present time, ought to have some effect on the price of raw material in the way of betterment of prices. WELLS & NELLEGAR CO.

THE DAVENPORT TRADE.

Yours of the 16th, asking us to write you "with special reference to the effect which war scare is having upon business here," is received. The only noticeable effect on business so far is a demand for additional skilled labor at the arsenal, who have been working overtime. Should we get our proportion of the work necessary in manufacturing supplies, it will bring a large additional force of workmen to this point and hence have a stimulating effect on local trade. SICKELS, PRESTON & NUTTING CO.

THE PITTSBURG TRADE.

March has thus far been remarkably mild-mannered, and the beautiful weather has brought an active demand for spring Hardware. Jobbers are busy putting up mail orders, quick shipment being called for in every instance. The great drawback is the low value of goods. Work, work, work as hard as the whole force can go, from week to week, turning out goods, but the amount in dollars is no larger than when we did half the business with half the expense, ten or fifteen years ago.

There is certainly a gradual increase in the purchasing power of the people, a greater variety of goods called for, and more of them. When this will reach the point of stiffening prices by taxing the producing capacity of manufacturers, is a question.

The encouraging export trade we are doing is one of the best signs of the times.

The fifty million "peace appropriation" of Congress is coming to Pittsburg in part, in the purchase of projectiles. It may not be generally known that we have the most successful maker of shells here, and they have large contracts to fill. We sincerely hope the national honor may be upheld without resort to actual war, and no doubt the preparations making are the best preventive.

LOGAN-GREGG HARDWARE CO.

THE ST. PAUL TRADE.

We are glad to report a fair business and very good prospects for spring trade. Prices generally are firm, with a good feeling among both jobbers and retailers.

The "rod pool" is looked upon as broken, and, consequently, those wanting wire and nails are uncertain as to the price.

We hear rumors of war and preparation for it, but it affects us here in the West only to the extent of having a tightening in the money market. We trust to President McKinley and his advisers to uphold the honor and dignity of our country, and firmly believe that he will do so. It does us good to see the splendid position of the South to protect "Old Glory" from injury or insult, and believe this war scare will result in cementing this country together as nothing else would, and if war does result, the effect will be to make this country more solidly one than ever before.

C. W. HACKETT HARDWARE CO.

THE PHILADELPHIA TRADE.

March is not living up to its reputation for blustery weather; on the contrary, we have had a succession of smiling skies and balmy breezes, which seem to promise an early spring.

Vegetation is already considerably advanced, perhaps too much so in case we should meet with a cold spell. All this, however, has had a beneficial effect on trade, and the last few days have seen quite a brightening up in this respect, with spring goods in fair demand, while buyers seem much more disposed to order liberally.

Already in some lines, the increased business, especially from the West, is having an effect in advancing prices, and during the past few days higher quotations have been announced on brass and copper goods, carriage, stove and tire bolts, and a few other lines.

Owing to the failure to organize the wire nail pool on the lines as originally proposed, barbed wire and wire nails have been somewhat weaker in consequence, but we understand that a partial combination has been formed, representing, perhaps, the largest mills in the country, and prices will, doubtless, steady themselves in a few days.

Collections, locally, are a little slow owing to the old-time custom in some parts of Pennsylvania of making April 1st a general settling day, but the orders given by the government, on account of the war scare, are giving employment to many men heretofore idle, while, at the same time, it withdraws from the open market certain large factories which are now obliged to put in all their time on special orders, and the immediate effect is beneficial, as the money paid for wages finds its way later into the channels of trade.

On the whole, prospects are encouraging for almost all classes, and we think that merchants are in a more hopeful frame of mind than for some years past. While there has been very little positive improvement as yet, everything seems to point to a steady advance toward renewed prosperity. BIDDLE HARDWARE CO.

THE COLUMBUS TRADE.

The mild weather has hurried trade wonderfully, and it is hard for manufacturers, as well as jobbers, to keep up with the demand for season goods. Orders that were placed soon after the first of the year for shipment April 1st are wanted immediately, and every mail brings requests to forward goods ordered, without delay. Prices have not changed much since our last letter. Bolts are 5 per cent.



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higher. Rope seems to be on the up-grade at a rapid rate, and if manila don't look out, sisal will be the highest. If we are not mistaken, the demand for manila will increase and sisal decrease, as there is more than ½ cent per pound difference in the value of the two, while now there is only that difference in the cost. Strap hinge manufacturers have adopted a new list on hinges, which is very much higher. If any one can show us the wisdom of doubling a list up, and making the discount correspondingly high, we would be willing subjects. If it is done with the hope of getting better prices, we think it is a failure. The old list is familiar to every dealer now, and we cannot see the sense of changing it.

We hear considerable gossip about war and what we do not know about it would fill a large book, and what we do know could be put in a pamphlet. The daily papers publish things to-day, and to-morrow say they did not know anything about it. If fact, you do not have to wait until to-morrow for a denial, for it often happens that it comes as a postscript in the same issue. The truth is that newspapers as a rule are getting to be so unreliable, you never know whether the reports are based on facts or the imagination of some reporter.

We cannot see how war would affect mercantile interests materially except indirectly. It has already given a great impetus to the ammunition, coal and lumber business. If war should be continued long, it would require an increase in the army and relieve the glut in the field of labor, which would give employment to men who are now out of employment. We do not expect war, as we believe the difficulty will be arbitrated, and sincerely trust it will be settled without resorting to war. But Uncle Sam cannot be insulted by Spain or any other nation unless they expect to pay the penalty. SMITH BROS. HARDWARE CO.

THE CLEVELAND TRADE.

Competition is chargeable with most of the friction between capital and labor, and some modification of its relentless cruelty seems to be advisable. It has forced a combination among laborers, and strongly suggests the advisability of the same thing among manufacturers. To prevent this, already in many of the States laws have been passed prohibiting agreements that tend to maintain prices.

Competition, useful in an earlier age, seems to need modification in a higher civilization—cheapness is not a synonym of happiness. Manufacturers, as a rule, prefer to pay fair wages, but are often compelled, as a last resort, to reduce the wages or close their shops.

The German system of co-operation among manufacturers has resulted in benefit both to labor and to capital, and the great prosperity in Germany is ascribed to it. It is a new field for legislation and should be handled with the greatest wisdom, and it would be wise to investigate the German method. There is great danger of crippling industry and injuring both labor and capital by hasty legislation. Organization of laborers is recognized of value, and why may not that of manufacturers also? It seems to be so in Germany. If the public are protected in one case, why may they not be in the other?

Our present system tends to force wages to the lowest limit, and results in the failure of many manufacturers, and if legislation can aid in correcting this evil, it would be a public benefit, for competition that forces prices below cost, results in injury to the consumer, dealer, laborer and manufacturer alike. Co-operation seems to be the remedy.

Notwithstanding the war talk, trade in March shows a steady improvement. The foundation for a good time is laid in the West and not in Wall Street. Purchases are not made on speculation, but on demand for the goods from consumers, and this furnishes evidence of an inherent prosperity in the country districts. Our ills are slowly being cured, and it will give us wealth if not contentment. Discontent is not necessarily an evil, as love of the best may be the father of it. Indifference may be and often is more dangerous.

The safest indication for anticipating continued improvement is that actual demand from consumers is compelling purchases.

Rumors of success and failures of combinations will continue to strengthen or weaken prices, but do not materially affect the amount of business.

The bulls and bears of Wall Street may continue to bellow and growl, but all unconscious of it, the great West is moving on to victory, and will make the nation great.

THE LOCKWOOD-TAYLOR HARDWARE CO.

Lyon & Grumman, Bridgeport, Conn., write as follows in commendation of the "Baker fence," manufactured by the Baker Mfg. Co., Allegheny, Pa., and advertised on page 37: "As the year 1897 is about to close, we take pleasure in communicating to you the satisfaction we have enjoyed in selling your fence for the past several years. Wherever we erected it, it met with approbation and gave universal satisfaction. The fence makes a very neat and pretty appearance, and adds materially to the pleasing surroundings of a cottage home. We expect the year of 1898 will bring us a large increase in our orders for your popular fencing."

The Remington Arms Co., Ilion, New York, and No. 315 Broadway, New York, are sending their friends a Remington Desk Tray, which is a fac-simile of their 1898 Remington Special Chain and Sprocket, printed in four colors. This is a handsome ornament to use for a pin tray or other purposes on the desk, and the company will be pleased to send one to any address for three two-cent stamps.

IN PAYING OUT MONEY

Belting,
Garden Hose,
Water Hose,
Fire Hose,
Suction Hose,
Steam Hose,
Air Hose,
Tubing.
Packing,
Gaskets,
Valves,
Rubber Tiling,
Rubber Matting,
Emery Wheels,
Specialties,
League Tires.

There is no question as to value given—a dollar's a dollar all over the country. In taking in goods there is always a question as to value received—no two makes are alike. But it is possible to practically wipe out the uncertainty by selecting goods with a reputation.

1846 Para, Double Diamond and **Carbon Garden Hose** are known from Maine to California for high quality and long service. They do their own talking, and make good missionaries for the rest of the line. We manufacture five other grades of rubber hose and two of cotton, fully described, with cuts, in new booklet—"Your Silent Salesmen." Free, with samples and prices. Call or write.

New York, 25 Park Place.
Chicago.....143-145 Lake St.
St. Louis.....210 North 12th St.
Philadelphia....308 Chestnut St.
Boston.....24 Summer St.
San Francisco....509 Market St.
Cleveland.. W. H. H. Peck Co.
N. Orl's, Woodward, Wight & Co.
Indianapolis,
Central Rubber & Supply Co.

NEW YORK BELTING & PACKING CO. LTD

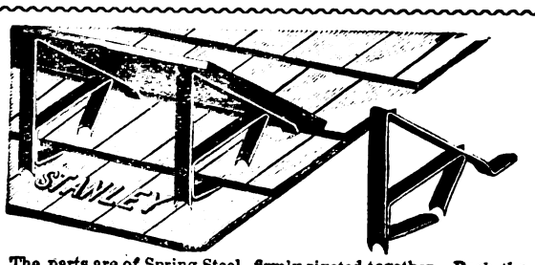
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The BEST FOR BICYCLES, GUNS, TYPE-WRITERS ETC.
OILER IN THE WORLD



Regulates supply of oil to a drop.
DOES NOT LEAK
We make cheaper oilers also, unequalled for PRICE and QUALITY.
Cushman & Denison, 172 9th Ave., N. Y.

STANLEY'S
PATENT
Roofing Bracket.
STANLEY
Rule & Level Co.
New Britain, Conn.
SOLD BY ALL HARDWARE DEALERS.



The parts are of Spring Steel, firmly riveted together. Push the beveled ends up under two layers of shingles, already nailed down; the Bracket has two separate bearings on the roof, and is so formed that any increase of pressure from above, increases its stability.
One dozen per minute can be placed in position, or removed; and great economy in lumber and nails will be found. There are no loose parts to get lost; and no nail-holes are made in the roof. In constant use these Brackets will last a life-time.
No. 1. Roofing Brackets, 8 inch, ½ dozen in box. Per Doz., $3.00

Value of Advertising.

In a discussion upon the subject of "Advertising as a Business Force" before the Merchants' Association, New York, Robert C. Ogden, a resident partner of John Wanamaker, made the following remarks, which were loudly applauded by the large audience present. He said, in part:

"We all know that advertising is a business force, a very great power that has to be recognized most thoroughly. Concerning the principle of advertising I am not quite clear myself, but if I should undertake to make an analysis of a retail business I should divide the subject into three parts—the merchandise, service, and advertising. All three of them are equal in their importance to each other, but I should characterize the advertising as the dynamic power of the business. With the public's mind fixed upon business as it now is, with the competition that exists between traders, it is undoubtedly the fact that without advertising of the proper kind a business cannot be successfully prosecuted to any large degree. Therefore I consider the advertising as the force which is to vitalize all the other work that is put into the business.

"After the merchant has purchased his goods, after the service is hired, the steam that is generated in order to make the machine move is the advertising.

"One mistake of the advertising merchant is that he does not take advertising sufficiently seriously. It is regarded as an element that is somewhat important and yet a little strange. It is not thought of generally as holding the very serious and important relation to the public at large and to the business itself that it really should occupy.

"Say a man sends his agent to advertise his goods; that agent at once becomes an Ishmaelite. Every man's hand is against him. If he succeeds in getting past the servant and then the butler of the house, it is still doubtful if he can secure the attention of the owner. Let him send his advertising matter by mail, and every obstacle is put in the way of its reaching the person for whose eyes it is intended. For this reason a merchant must place his advertising in position, and in a manner which will insure its being read by those whom it is intended to reach.

"The newspaper is the business man's rostrum; through its columns he speaks to the public, and for that reason he must regard it as a virtual key to his character. By his sayings the people shall know him and judge him. He must therefore first of all be true—true to himself and true to his readers. He must use good English and make his advertisement as attractive as possible in form, type, illustration, and words. A splendid tribute to American advertising was recently paid by Mr. Gladstone. A friend of mine called on him and noticed that he kept all the American issues of magazines which are also published in England. Upon asking him the reason for this, the grand old man replied: 'Oh, I keep the English editions, too, but they are for Mrs. Gladstone. I like to read the advertisements in the American editions. They are in themselves literature, and I can gauge the prosperity of the country by their very appearance.'"

In closing, Mr. Ogden, speaking of the results of advertising, said: "As for the facts which come from advertising, that is a matter that cannot be demonstrated by any set theory. It resolves itself to this: A business man who advertises continuously—and he must advertise continuously to achieve any results—soon notices the increase in his business and becomes prosperous. This is the test. There is no other, and I cannot conclude my few remarks any better than by ending with the old proverb:

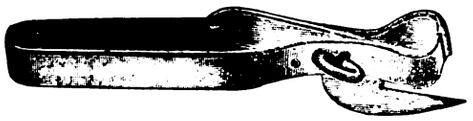
"'Early to bed and early to rise,
Don't get tired—advertise.'"

Frayed Fagin—"So de woman cried out 'Welcome!' an' yer waltzed right in?"

Chewed Chauncey (groaning)—"I did—an', oh, oh, Lord! Welcome wuzn't a 'ting but de name uv her English bulldog."—*Exchange.*

THE "KLONDIKE" COMBINATION CAN OPENER AND TACK PULLER.

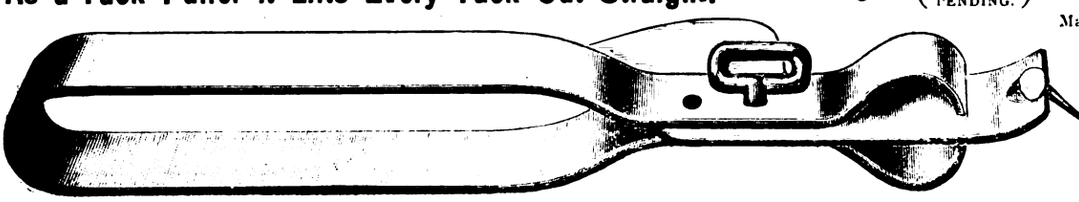
It is the BEST and FASTEST-SELLING 10c. Tool on the Market To-day.



By turning the set screw the blade revolves and brings either tool into position. Tempered Blade, Plated Handle. Handsomely put up.

WRITE TO-DAY FOR JOBBING PRICES.

As a Tack Puller it Lifts Every Tack Out Straight. (PAT'S PENDING.)



Manufactured by
F. J. HALL CO.,
WALLINGFORD, CONN.
L. BOX 631.

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WE MANUFACTURE

FIRE POTS, TORCHES, BRAZING MACHINES, CORE AND ENAMELING OVENS,

SELF-HEATING TAILOR IRONS,

Confectioners' Heaters, Bicycle Pumps, Wall Torches, &c.

Union Heater Supply Co.,* 91 Congress St. E., *Detroit, Mich.

Past Due Accounts.

In a very able address delivered by W. H. Preston, ex-president of the National Association of Credit Men, at the convention of the Iowa and Nebraska Retail Implement Dealers' Association, at Council Bluffs, Iowa, the speaker referred to past due accounts as follows:

"When a statement of past due account is received, the amount should be promptly remitted or an acknowledgment of statement sent and reasons for non-payment given and the prospects for payment in the future. There is nothing that will influence a Credit Man more than the treatment of statement of past due account, for in this is shown one of the important characteristics of the conduct of the business. A statement of past due account is always a request for immediate attention and should be granted this courtesy without delay, and if remittance is not made, reason should be given. It is customary with many houses to give a ten days' notice of intention to make a draft. When such notice is given preparation should be immediately made to meet the draft, but if you prefer not to have draft made it is your duty either to promptly remit the amount or request the draft to be withheld, giving reasons for such request and prospect of payment."

Increase Lines.

Without encroaching upon department store methods, which many Hardware dealers concede to be very obnoxious, there are opportunities of which every wide-awake merchant should take advantage to increase his lines. The expense attached to an extension in different lines of goods should not deter a dealer from investing in them when they come within the extent of the stock which he already has. A merchant is shortsighted who allows himself to be appalled by the immediate outlay, and does not realize that an extension of stock means an increase in business and profits. There is no shortcoming more detrimental to prosperity or success than this one of shortsightedness, which cannot venture on any new project because effort and expense seem dreadful at first. If inventors felt like this, we would still be riding in a stage coach, cooking over fire-places and working with the crudest and most unweildy appliances. To be brave and dare to do a great deal does not imply that a man is venturesome or imprudent. Every man who desires to attain a modicum of success should carefully study the methods of others who are known to have reached the promised land for which he himself is bound. Endeavor to ascertain what lines of goods they sell. Careful observation in city retail stores is a good assistance to a mercantile education. By the addition of goods which really appertain to the Hardware business, customers who have been in the habit of going to another store for them will be very glad to find these at the same place where they do their buying. Take, for example, lamps; many Hardwaremen do not keep these in stock, yet they are appropriately used in conjunction with Hardware, and as they can be both useful and ornamental, no time should be lost in obtaining a line of them.—*Stoves and Hardware Reporter.*

A. N. Jacobs, No. 491 Broadway, New York, a leading uptown dealer in "job lot" specialties, has in preparation a catalogue of desirable job lots in Hardware and sporting goods, which will be ready on April 1st. This catalogue will be mailed free to any Hardware dealer upon request, and will be found especially attractive.

A young man may lose minutes and hours by being obliging, but it is not in dollars or in other people's esteem that he will be any the poorer.—*Hardware & Metal.*

For Sale.

A COMPLETE stock of Hardware, saddlery, stoves and tinware. Business well established in a live town and prosperous country. Address A. B. C., care HARDWARE, No. 143 Chambers Street, New York.

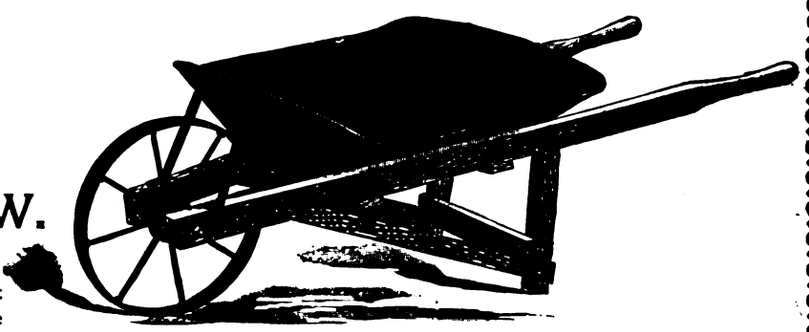
We Want to Buy

Hardware and Housefurnishing Specialties, regular or in job lots, any quantities and for cash. . . . . .

WOLFF & CO.,
219 W. 29th St., New York City.

PAN-AMERICAN R. R. BARROW.

With Round Steel Spoke Wheel. The most durable, lightest and best barrow made. Used all over the world. Barrows for all purposes.



Write THE KILBOURNE & JACOBS MFG. CO.
COLUMBUS, O., U. S. A.

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FIFTY MILLIONS? - - -

YES!

That's about the number of

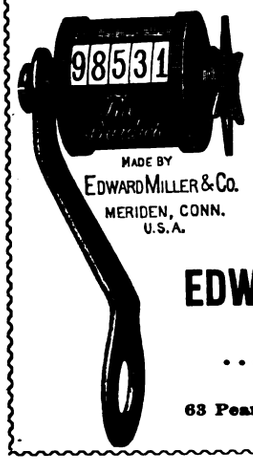
Champion Barrows



In use in the world and there's more to come. Better have a few dozen. Finest goods made. . . . .

BRYAN MFG. CO., Bryan, Ohio.

The BURDICK CYCLOMETER.



Weight 1 Ounce.

10,000 Miles and Repeat.

New Principle. Reliable. Best.
Dust Proof. Water Proof.

1898 GOODS.

MILLER'S A1 LAMP.
EVERLIT LAMP.
ROYAL BELLS.

EDWARD MILLER & CO.,

Factories and General Office,

...MERIDEN, CONN...

STORES:
63 Pearl St., Boston, Mass., and
28-30 West Broadway, New York.

Will Move Our Business.

Prefer some town between New York and Chicago, where more capital can be secured to enlarge our business; can employ seventy-five men with present business. Want town cheap coal and good railroad facilities. We have the best business and trade of any concern that makes Hardware Specialties in this northern country and many which we control. Could move the business as soon as we fill orders we have on hand, which will take about three months. Plant and business will be all clear. Will give all details to any person or persons that are looking to make money and increase the population of their town and a business that has come to stay. For particulars address

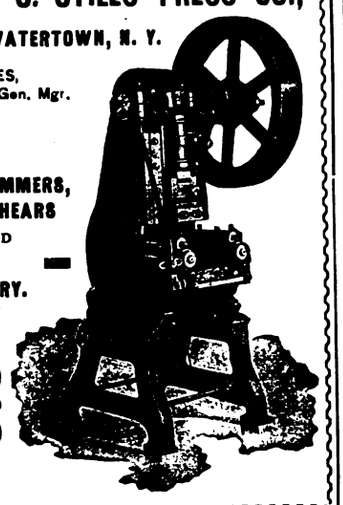
H. E. BARDEN,
GRANVILLE, WASHINGTON CO., N. Y.

THE E. S. STILES PRESS CO.,

WATERTOWN, N. Y.

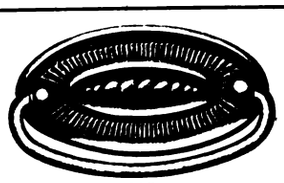
E. S. STILES,
Treas. & Gen. Mgr.

PRESSES,
DIES,
DROP HAMMERS,
POWER SHEARS
AND
SPECIAL
MACHINERY.



Correspondence Requested.


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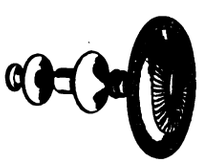
American Ring Co.,

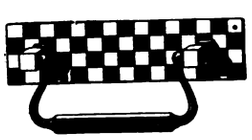
Waterbury, Conn.

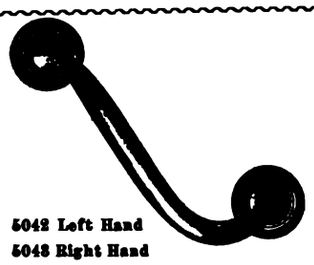
MANUFACTURERS OF . . .

Brass Trimmings for Furniture and Interior Cabinet Work,
Curtain Pole Trimmings,
Brass Headed Upholstery Nails,
Brass Ferrules and Curtain Rings.


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5042 Left Hand
5043 Right Hand


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NEW CUSTOMERS? Yes, and increases your sales in other lines—



"DUBLEOOK" BICYCLE HANGER

Hangs wheels off the tires—that preserves them—and is the very best and most convenient thing out for cleaning. No stooping; all parts free. Nickeled, with screws and rubbers, postpaid, all dealers carry it... 50c.

Graham-Woodward Equip't Co.,
26 Cortlandt St., New York.

"WE GET RESULTS."

New York Cycle Supply Co., New York. [*Bicycle Supplies*]: HARDWARE is all right as an advertising medium. We get results from it.

"SATISFIED WITH 'HARDWARE.'"

Schoverling, Daly & Gales, New York. [*Bicycles, Guns, etc.*]: We have every reason to be satisfied with our advertising in HARDWARE.

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RETAIL TRADE RECORD.

Hardware dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Hardware Stores.

Auburn, Neb.—Sellers & Stitzel.
Bellaire, Mich.—Meyer & Flanelly.
Caldwell, Ohio.—J. E. Smith.
Chester, Pa.—D. P. Paiste.
Cleveland, Tenn.—Varnell & Bennett.
Graham, Mo.—M. C. Brumbaugh.
Janesville, Iowa.—H. A. Prosser & Son.
Metamora, Mich.—I. H. Lewis.
Nelson, Minn.—Becker & Nelson.
Pierce City, Mo.—Gates Hardware Co.
Tacoma, Wash.—Bowers & Keir.
Winston, N. C.—W. H. Gilbert.

Changes and Improvements.

Allegany, N. Y.—George R. Dolloph, for several years the leading Hardware merchant in Canaseraga, will start in business in his new store in a month.

Bangor, Me.—A co-partnership has been formed consisting of Wm. H. Patterson and Chas. E. Chick, who will do a general Hardware business at the old stand of Patterson & Porter.

Callao, Mo.—R. W. Harp has sold his interest in the Hardware business of Hurt & Harp to his partner, M. L. Hurt.

Clinton, Conn.—Leander L. Hull, wholesale shelf Hardware, succeeded by S. B. Redfield.

Coldwater, Mich.—F. Cox and J. Williams, of Girard, have taken the agency for the Osborne agricultural implements, and will occupy quarters on West Chicago Street.

Coloma, Mich.—Chas. Howe, Hardware and implements, of Buchanan, contemplates moving his business to Coloma, Mich.

Council Bluffs, Ia.—The Hardware and furniture store of Peterson & Schoening has removed from Nos. 515 and 517 South Main Street, to Nos. 208, 210, 212 and 214 Main South Street, in the Merriam block.

Crookston, Minn.—The Hardware business, formerly conducted by C. W. Metz, in this city, has changed hands, Vannet & Erickson being the purchasers.

Darlington, S. C.—J. H. Early, Hardware, has moved his business into the Marco Building.

Edwardsville, Pa.—The Hardware firm of Jenkins & Williams have dissolved partnership, Mr. Jenkins continuing the business at the old stand.

Eminence, Ky.—Scott & Forsee, Hardware and stoves, succeeded by E. F. Forsee.

Erie, Pa.—Al Kuhn, who has been employed in the Hardware store of D. C. Weller for many years, is about to embark in business for himself, and has opened a Hardware store on Parade Street.

Fayetteville, Ark.—W. N. Crenshaw will move his Hardware establishment to the Lipsey corner, southeast the square.

Fenton, Mich.—F. J. Hoffman & Co., Hardware, have dissolved partnership. Mr. Hoffman will continue the business.

Grand Ledge, Mich. — Kiser & Clark, Hardware dealers, have dissolved. Mr. Clark has purchased the interest of Mr. Kiser.

Greensboro, N. C.—Wakefield Hardware Co., A. W. Vickory has purchased an interest in business, and will hereafter be connected with that substantial and progressive establishment.

Greenville, S. C.—The Barr Hardware & Roofing Co. have purchased the lot on Main Street, next to the handsome grocery of J. A. Bull & Co., and they will erect thereon a commodious two-story building for their own use.

Hillsdale, Mich.—H. C. Langdon, Hardware, will close out business here and go to Grand Encampment, Col., where he will engage in the Hardware business.

Holyoke, Mass.—Gladwin & Noble Bros., Hardware, have been dissolved by the retirement of F. A. Noble. The business will be continued by the other members, James R. Gladwin and Howard G. Noble, under the title of Gladwin & Noble.

Janesville, Iowa.—C. L. Decker, Hardware, succeeded by A. J. Prosser & Son.

Junction City, Kan.—J. J. Blatner, Hardware and agricultural implements, succeeded by Gretner Hardware Co.

Lamont, Iowa.—G. A. Starr, Hardware, succeeded by T. W. Rogers.

Littleton, N. H.—A. D. Wright has sold his stock of Hardware to Lynch & Richardson.

Macon, Mo.—Frank Gordon has sold his interest in the Gordon & Jones Hardware store to Richard Jones.

Manchester, N. H.—A. W. Fuller, of Gorham has sold out his Hardware business to C. H. Hobbs.

Maryville, Mo.—Irvin & Conn have sold their Ravenwood Hardware store to Bentley & Proctor.

Morristown, N. J.—F. S. Freeman has sold his Hardware business to H. E. Stirn, who has taken possession.

Mt. Sterling, Ohio. — Beale Bros. are building a new addition to their Hardware store.

New London, Iowa.—C. J. Seymour & Co., Hardware and implements, C. J. Seymour has disposed of his interest to George Smith, of Canaan township.

Randolph, Wis.—F. J. Kenney, who has been engaged in the Hardware business here for twelve years, has sold his business to Mr. Deniger of Beaver Dam. The new owner will take possession at once.

Rutherford, N. J.—L. McC. Ball & Co. have bought out the Hardware business of C. J. Knapp, on Park Avenue, and will continue the business at the old stand.

Syracuse, N. Y.—L. P. Smith has added a tinning and plumbing department to his Hardware business. C. M. Nesbit, of Hammond, will have charge of it.

Tecumseh, Wash.—E. F. Nichols, son of our Hardware man, has sold his Hardware business in Holdenville and will open a Hardware store in Stroud soon.

Vassar, Mich.—R. G. Lyon has sold his Hardware business to R. T. Squires.

Waterloo, Iowa.—The Hardware firm of Sweitzer & Leytze, composed of J. N. Sweitzer and Ernest Leytze, doing business at No. 533 Commercial Street, has been dissolved. Mr. Leytze retires from the business, leaving it to be continued by his former partner.

Watertown, N. Y.—The Hardware firm of Hyde, Young & Hyde, which has conducted its business at the lower end of Public Square, has been dissolved, and the firm will henceforth be known as Hyde Bros.

Woodburn, Iowa.—Redney & Monk, Hardware, sporting goods, etc., have removed to Humeston, where they will continue business.

Business Embarrassments.

Hartford, Conn. — George N. Norton, stoves, furnaces, etc., reported to have made an assignment.

Kemptville, Ont.—R. W. Dickinson, agricultural implements, has assigned to Jas. McGregor.

Rich Hill, Mo.—S. B. Cole, dealer in Hardware and implements, has made an assignment. Liabilities, $8000; assets, $20,000.

Toronto, Can. — James Brayton, Hardware merchant, Hamilton, has assigned to A. H. Hope & Co.

Wheeling, W. Va.—R. K. Giffen & Co., dealers in Hardware and agricultural implements, have made an assignment to John A. Zorn.

Burglaries in Hardware Stores.

Fulton, Ky.—A. Huddleston & Co., revolvers.

Hopkinsville, Ky.—M. C. Forbes & Bro., revolvers and cutlery taken.

Hughesville, Pa.—Jeremiah Kelley, revolvers taken. Loss, $100.

Kent, Wash.—Cavanaugh Bros., Hardware and tools taken.

Lynn, Mass. — Joseph H. Harding. Loss, $25.

National City, Cal. — Frank P. Reed. Loss, $75.

Rochester, Minn.—W. H. L. Donaldson, revolvers and cutlery taken.

Stone Bluff, Ky.—A. D. Coffing. Loss, $40.

Sunset, Tex.—Nuckles & Norris. Loss, $50.

Recent Fires.

DeKalb, Tex.—Read Hardware Co., destroyed by fire.

Milan, Mo. — The Hardware store of Shollers & Lane damaged by fire. Loss, $200.

Montour Falls, N. Y.—The Carrier Cutlery Co., destroyed by fire.

Nebraska City, Neb. — The Hardware stock of J. J. Cardwell damaged by fire to the extent of $600. Fully insured.

Oakland, Pa.— Levier, Wallace & Co., destroyed by fire. Loss, 5000; partially insured.

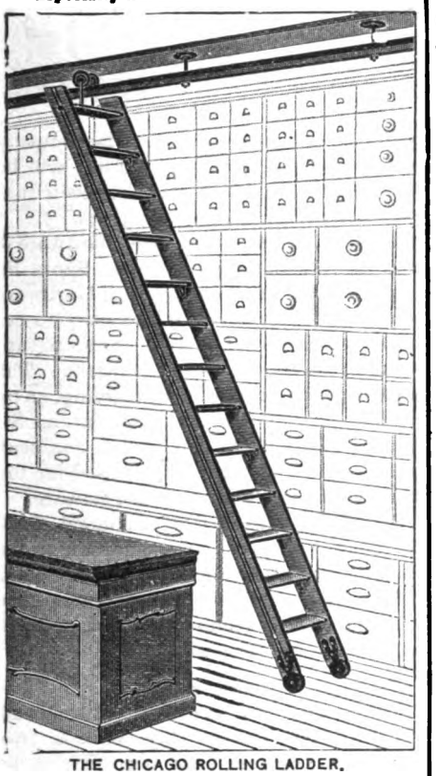
Virginia, Ill.—F. C. Peck, Hardware, etc., slightly damaged by fire.

Waterford, Ont.—F. S. Green's Hardware store damaged by fire. Loss, $25.

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The Chicago Rolling Ladder

Especially Adapted for Hardware Stores.



THE CHICAGO ROLLING LADDER.

The first requisite for a store ladder is **ease of operation.** The Chicago is the only ladder of the style shown above that does work easily. If you would save one-half your labor, fit your store up with either the **Chicago** or **Bicycle Step Ladder system.** Write for Catalogue illustrating our 4 distinct ladder systems to

The Bicycle Step Ladder Co.,
60 STATE STREET, CHICAGO, ILL.

AGENCIES:

Eastern Agents, YOUNGS & CARR, 8 Clinton Place, New York City.
New York and vicinity, E. J. HUSSEY & CO., 80 John Street, New York City.
California, JOHN WOODLOCK, 26 Beale Street, San Francisco, Cal.
Northwestern States, HOWE SCALE CO., Portland, Oregon.
Texas and Southwest, ED. FOY, Dallas, Tex.

WATERBURY BRASS CO.,
60 Centre St., New York.
. . Manufacturers of . .
Sheet Brass, Brass and Copper Wire, German Silver and German Silver Wire.

PERCUSSION CAPS
OF ALL KINDS.

Hicks Primers, Berden Primers, Powder Flasks and Shot Pouches.

TAPE MEASURES,

EYELETS AND SMALL BRASS WARES
OF EVERY DESCRIPTION.

Our Covers are the most attractive ever presented for Catalogues, Booklet, etc. The Colored Inserts used in this publication are specimens of our product. . . . .

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Send for Sample Books showing three distinct styles and over thirty different Colors.
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(Department "B") Lockport, N.Y., U. S. A.

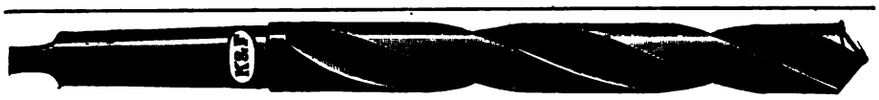
"EVERYTHING IS COMING UP."
BUSINESS IS BETTER AND THERE WILL BE A LARGER DEMAND THAN EVER FOR OUR

Sheep Skin Mitten.



Acknowledged to be the best article for polishing stoves, as it does away with the old time dirtiness of the work, making this work a pleasure. Also invaluable for polishing brass or glass, or silverware, which it does not scratch. For tan shoes and cleaning bicycles it has demonstrated itself a conspicuous success.

Diamond Hardware Co.,
624 Atlantic Ave., Boston, Mass.



KEARNEY & FOOT CO. 100-102 Reade Street, NEW YORK.

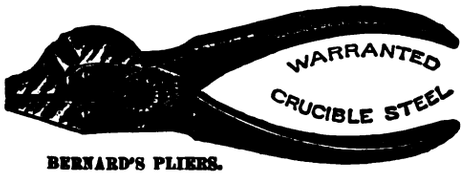
The BEST Drill on the market.

Write for 1898 . . . Catalogue.



STAR SHEARS.

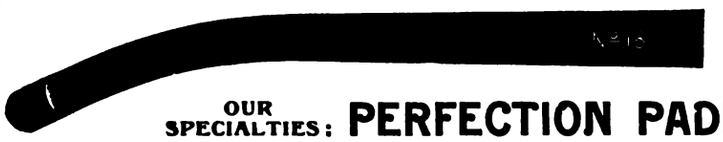
"WE MAKE the LARGEST LINE of . . . **Shears, Scissors and Pliers.**"



BERNARD'S PLIERS.

THE
WM. SCHOLLHORN CO.,
NEW HAVEN, CONN.

AMES SWORD CO., Chicopee, Mass.



OUR SPECIALTIES: **PERFECTION PADLOCKS,**
All sizes, ⅛ inch to 2½ inches.

BICYCLE REVOLVERS, THE GREATEST NOVELTY OF THE AGE.

Compressed Seam Fork Sides and Handle Bars. *CORRESPONDENCE SOLICITED.*

BAKER PATENT STEEL PICKET FENCE.



AS CHEAP AS WOOD.

We want one Hardware firm in every city or county to sell this fence.

Send for Circular to

BAKER MFG. CO., Allegheny and South Aves., **Allegheny, Pa.**

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HARDWARE MANUFACTURERS' RECORD.

Hardware manufacturers, the country over are requested to contribute to this page News of new factories or companies, changes, improvements, etc, will be gladly received, and promptly published.

New Companies, Etc.

Adrian, Mich.—Among the latest in corporations is the Gibford Mfg. Co., of this city, with a capital of $5000. The firm will manufacture all kinds of specialties, among which will be bicycle chain cleaners.

Albany, N.Y.—Reuben Wood's Sons' Co., sporting goods and fireworks. Capital, $30,000. Office, Syracuse. Directors: William Allen Butler, Alice L. Wood and Carolyn J. Wood.

Baltimore, Md.—The Beery Heating Co. has been incorporated by Otto Bruggeman, William A. Beery, Ira Plumley, Jos. C. Hobbs and Jas. E. Tippett. Capital stock, $5000.

Bellville, Ill. — Another nail factory is about to be established in this city, Solomon Mueller having ordered four new machines for making wire nails. His factory will be located at No. 407 East Main Street. His son, George Mueller, and Harry Wangelin are also interested in the proposed new industry.

Chicago, Ill.—Model Window Hinge Co. has been incorporated by George W. Reed, Reuben H. Peters and George H. Parker; to manufacture window hinges. Capital stock, $50,000.

Cincinnati, Ohio.—The Davis-Egan Machine Tool Co., capitalized at $500,000, has been licensed to transact business in Illinois, with a capital stock of $8000.

Cleveland, Ohio.—The Kirk-Latty Mfg. Co. has been incorporated for the purpose of manufacturing and dealing in bolts, tacks, nails, Hardware, tools and other steel specialties, with $5000 capital stock. The incorporators are: F. M. Kirk, S. D. Latty, H. T. Latty, William Bates and J. H. Woods.

Dallas, Tex.—The Rose Mfg. Co. has been incorporated by J. D. Crawford, P. A. Norris and I. E. Rose; to manufacture and sell goods, agricultural and farm products, etc. Capital stock, $50,000.

Goodwater, Ala.—The Gurley Handle Co. has been organized to manufacture all kinds of hickory handles.

Howell, Mich.—The Best Wire Fence Co. has been organized by A. Prindle, G. Hornung and C. F. Farrar.

Jackson, Mich.—D. M. Osborne & Co., manufacturers of agricultural implements, of Chicago, Ill., will establish headquarters in Jackson.

Jackson, Mich.—Reid Implement & Seed Co. has been incorporated, with a capital stock of $5000.

Lees, Mo.—The Powell Hardware Co. has been incorporated by E.M. Powell, Jonathan Keirsey and R. J. Powell. Capital stock, $4500.

Nashville, Tenn.—The Harding Mfg. Co. has applied for charter, with J. A. Norris, John Harding, Jr., Innis Brown, C. E. Brown and E. Brown, as incorporators; to manufacture farm implements and machinery.

New York, N. Y.—Benjamin C. Smith & Sons has been incorporated by B. E. Smith, B. C. Smith and F. A. Smith; to carry on a plumbers' supply business. Capital stock, $10,000.

New York, N. Y.—Woods Specialty Co.; to manufacture Hardware. Capital, $100,000. Directors: F. T. Pember, E. D. Woods and C. E. McFadden, Granville; H. T. Seymour, New York City; N. T. Boyd, Poughkeepsie.

New York, N. Y.—The Groton Mfg. Co. has been incorporated by E. W. Ketcham and others; to manufacture machine tools. Capital stock, $5000.

Ottawa, Ont.—The Canadian Nickel Steel Co. has been incorporated by Alexander Fraser and others, with a capital stock of $20,000,000.

Portland, Ore.—Eclipse Hardware Co., Astoria; Max Skibbe, J. N. Laws and W. C. Laws; $4000.

Rich Hill, Mo.—The manufacture of harrows will be established by a $25,000 stock company.

St. Paul. Minn.—The Grinals Farm Machinery Mfg. concern have filed articles of incorporation. The capital stock is placed at $25,000. The incorporators are: Elizabeth A. Grinals, C. D. Grinals, Ripley B. Brawer, of St. Cloud, and Walter Gregory, of Minneapolis.

Syracuse, N.Y.—Articles of incorporation of the Sweet Steel Co. have been filed with the county clerk. The incorporators will be A. C. Chase, J. William Smith, Ethel Sweet, John S. Finke and Peter Eckel. The capital stock of the new company is $100,000, of which $75,000 has already been paid in.

Toronto, Ont.—The Toronto Wire, Iron & Brass Works Co. has been incorporated by G. B. Meadows and others. Capital stock, $20,000.

West Saginaw, Mich.—A plow factory will be located here by D. C. McKay and Samuel Fair.

Changes and Improvements.

Chicago, Ill.—Robert Iron Works, certified to an increase in capital from $6000 to $10,000.

Chicago, Ill.—The plant of the Bonnet-Nance Stove Co., of Quincy, Ill., will be removed to Chicago Heights. The foundry will be 86x450 feet, twenty-five feet high, with a truss roof the entire length of the building. The main building will be 50x800 feet, two stories high, with boiler and engine house attached, which will be equipped with two freight and passenger elevators, electric light plant, a 200-horse power Corliss engine, two boilers, and all of the modern improvements to be found in an up-to-date stove works.

Indianapolis, Ind.—The Home Stove Co. have decided to remove their plant from Greenfield to Indianapolis. A suitable building has been selected, and the move will be made in a short time. The company now employ 125 men, but the force will be increased to 150. The plant has been running steadily for the last four years.

Kansas City, Mo.—The Gille Hardware & Iron Co., St. Louis Avenue and Santa Fe Street, one of the large general Hardware houses here, have found it necessary to enlarge their tinware factory in order to supply the growing demand of the trade. The old Huggins cracker factory building, 50 by 100 feet, four stories and basement, on St. Avenue near Santa Fe Street, has been leased, and hereafter it will be used for the manufacture of a general line of tinware.

Raynham, Mass.—The Diamond Tack Co. contemplates a large addition to the buildings and a new water wheel this season.

West Union, Ohio.—The Manchester Stove & Range Co. has been reorganized, and will start with a full force in a short time.

Recent Fires.

Kansas City, Mo.—The pattern shop and offices of the Kansas City Wire & Iron Works, at Rosedale, have been totally destroyed by fire.

Miscellaneous.

Albany, N. Y.—At a meeting of the directors of the Albany Hardware & Iron Co., the following officers were re-elected: President, Charles H. Turner; treasurer, James K. Dunscomb; secretary, W. B. Wackerhagen.

New London, Conn.—Twelve carloads of powder have been shipped from Hazardville, Conn., on a government order to Springfield, and the Hazardville powder mills are running night and day.

Reading, Pa.—All the departments of the Penn Hardware Co. are running with 500 hands and more than a hundred work until 10 P.M. four days in the week. The Reading Hardware Co. are running full-handed and on full time—nine hours a day and six days in the week.

Southington, Conn. — The cutlers employed by the Southington Cutlery Co. have received an increase of wages of ten per cent. The increase in pay is voluntary on the part of the company, the men having made no request for same. Knife employees of other departments have recently had their wages increased in like manner.

Springfield, Ill.—The Sattley Mfg. Co. are having a large demand for their plows, and have been compelled to put on an additional force of forty men, and are working night and day to fill their orders.

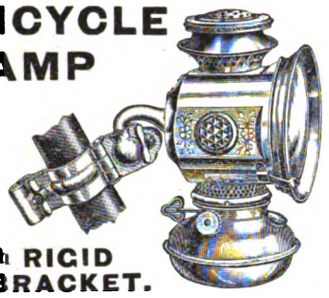
Westfield, Me.—The mill of the Bangor Edge Tool Co. has so far manufactured about 12,000 cant-dog stocks from lumber furnished by Cyrus Chase.

Windsor, Conn.—The plant of the Spencer Automatic Machine Screw Co. has been kept busy for some time past filling foreign orders for its machines, and there are large orders ahead for shipment to England. The men have had to work overtime to keep up with orders.

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BICYCLE LAMP



With RIGID BRACKET.

Workmanship, finish and burning qualities as near perfect as it is possible to make a Bicycle Lamp. . . . . .
The Wick Lock is the only practical one. Once the wick is adjusted nothing can move it up or down till you unlock it. . . . .
Has a larger and better Lens than any other Bicycle Lamp. Is 3 in. in diameter, Double Convex and polished. . . . .
Guaranteed Wind-proof under Normal conditions in riding. . . . . .
All parts removable for easy cleaning. No lamp compares with it in this respect. . .

New York. Boston. Chicago. **Plume & Atwood Mfg. Co.,** FACTORIES. Waterbury and Thomaston, Conn.

Beautiful Goods in Wrought Metal.



These Coat and Hat Hooks are made of Wrought Steel and Wrought Bronze Metal in all the desirable finishes. They are strong and handsome. We have some other patterns that are also good sellers. Write for illustrations and prices.

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New Haven, Conn.
New York.
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"Copperized" c. r. "Swedoh"

STEEL OILERS

Lamps, Engineers' Sets, &c.

Dept. H.

The Wilmot & Hobbs Mfg. Co.,

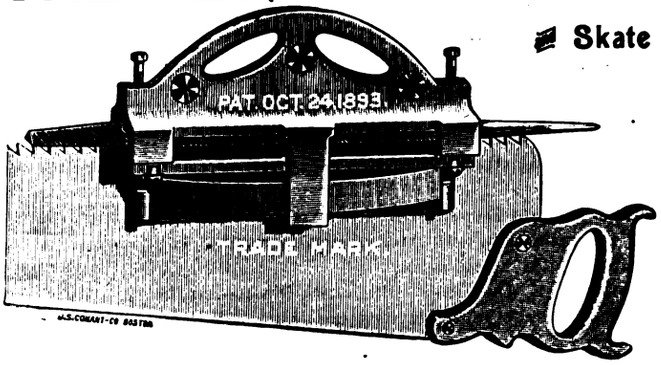
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Hot & Cold Rolled Steel.

Main Office, Rolling Mills and Factories,

BRIDGEPORT, CONN.

THE PERFECT SAW JOINTER



Skate Sharpener.

Adjustable to any thickness of blade.

Uses any common file.

Write for prices.

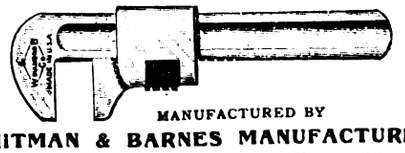
The only Practical Jointer and Skate Sharpener on the market.

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ESTABLISHED 1845
DUNBAR BROTHERS
MANUFACTURERS OF
STEEL (OIL TEMPERED) SPRINGS
ALL KINDS OF SMALL SPRINGS
MADE FROM
SHEET STEEL . STEEL . BRASS WIRE
BRISTOL, CONN. P.O. BOX 416

"Diamond" Bicycle Wrench.

Length over all - - 5½ in.
Opening bet. Jaws 1⅜ in.
Weight - - - 6 ozs.



This wrench is Drop Forged from a good quality of steel, Nickel Plated, Hardened Jaws and is very quick acting.

Secure our prices. . .

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THE WHITMAN & BARNES MANUFACTURING CO.,

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JOB LOTS OF HARDWARE

I buy and sell in any quantity complete lines of **HARDWARE. MANUFACTURERS** having **JOB LOTS** will find me a ready purchaser. **RETAIL DEALERS** will find my prices lower than any house in the business. . . .

A. N. JACOB, 491-493 Broadway, NEW YORK.

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80 Pine Street, New York.

FERTILIZER CHEMICALS and MATERIALS;

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For Tempering, Coloring and Filtering Purposes.

Geo. P. Marks & Co.,

HARDWARE MANUFACTURERS' AGENTS.

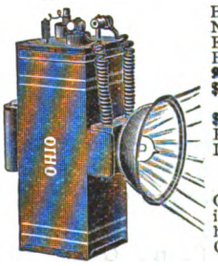
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It gives a Light that's White and Bright,
And two cents is the cost per night.



Bicycle Elec. Lights.	$4.00
Necktie Elec. Lights.	1.50
Edison Elec. Motors.	1.00
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$8 Medical Batteries.	3 95
$100 Bicycles, best make.....	39.00
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Discount to Dealers.

Our Bicycle Electric Ligh is the best thing that ever happened. . . . .
Catalogues free.

OHIO ELECTRIC WORKS, CLEVELAND, O

HAGAN'S

TRADE MARK.



BULL DOG

LEATHER.

Bull Dog Lace Leather the best on earth.

JOHN C. HAGAN & CO.,

Manchester, Virginia, U. S. A.

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BICYCLE TRADE RECORD.

Bicycle manufacturers and dealers, the country over, are requested to contribute to this page. News of new stores, changes, improvements, etc., will be gladly received, and promptly published.

New Companies, Agencies, Etc.

Buffalo, N. Y.—The Buffalo Foot Cycle Co. Capital, $600. Directors: W. S. Cleveland, B. L. Love and W. M. Farnham.

Camden, N. J.—Articles of incorporation have been filed in the County Clerk's office by the Kitzer Bicycle Lamp Syndicate Co. The objects of the corporation are to buy and sell all kinds of lamps and oils. The capital stock of the company is $185,000, and the amount paid in is $6000. The corporators are William A. Squire, of Beverly, and Benjamin Strauss, William P. West, Henry M. Landauer and Isidor Strauss, of Philadelphia, Pa.

Chicago, Ill.—Crawford & Co. has been incorporated by Amzi W. Strong, George H. Simpson and Thomas J. Milsted; to manufacture bicycles. Capital stock, $2500.

Chicago, Ill.—Cycle Motor Co. has been incorporated by Thomas P. Sheridan, Annie C. Courteney and Thomas B. McGregor. Capital stock, $2500.

Chicago, Ill.—The Rae Motocycle Co. has been incorporated, with a capital stock of $40,000.

Des Moines, Iowa.—The Kenyon Bicycle Co. has filed articles of incorporation with the county recorder. Its capital stock is $5000. The incorporators are E. D. Kenyon, president, and W. C. Beams, secretary and treasurer.

Detroit, Mich.—The J. L. Hudson Co., bicycles, opened up store.

Ionia, Mich.—A. P. Crell & Co., bicycles, will open a new store.

Knoxville, Tenn.—Edward Carter has opened a bicycle store at No. 411 Gay Street.

Leadville, Colo.—Jones & Van Hoorboke, bicycles, have opened new store.

Linesville, Pa.— Theo. Sigler, sporting goods, will open store.

Lowell, Mass.—Brazer & Co., bicycles, have opened repair shop under the management of Walter Williams.

Lyons, N. Y.—Noble & Hartman, sporting goods, etc., have opened new store.

Mystic, R. I.—Horace N. Wheeler will open a bicycle store in the Ketchum Block in a few days. Harry A. Simmons will be the manager.

New York, N. Y.—Austin Remsen Co.; to manufacture bicycles, motorcycles, etc. Capital stock, $10,000. Directors: Austin Remsen, L. A. Chandler and W. C. Butler.

New York, N. Y.—Bowman Bicycles & Gun Co. has been incorporated by S. W. Bowman, W. H. Webster and R. T. Greene. Capital stock, $200.

Pascoag, R. I.—A bicycle store and repair shop is to be opened by John J. Laco, Jr., in the Moore Building on Sayles Street.

Ridgewood, N. J.—W. P. Lawrence has opened a bicycle and machine shop on Prospect Street, near Ridgewood Avenue.

Rochester, N. Y.—The Springfield Rubber Tire Wheel Co. has been incorporated to manufacture rubber tires.

Saybrook, Ill.—S. Laurence has opened a bicycle establishment.

Springfield, Mass.—F. P. Danon and A. N. Stanley have formed a partnership and will open the Springfield Bicycle Depot on Worthington Street. They will carry full lines of Cleveland and Westingfield wheels.

Springfield, Mass.—The M. D. Stebbins Mfg. Co., bicycles, have opened a branch for the sale of Chillon bicycles at No. 90 Worthington Street.

St. Paul, Minn.—The Whaley & Dwyer Mfg. Co., organized for the purpose of manufacturing bicycle and Hardware specialties, have incorporated with a capital stock of $5000. The incorporators are C. F. Whaley, J. Dwyer and D. E. Dwyer.

Tonawanda, N. Y.—Isaac Sauberan has rented the large store at No. 2 Main Street in the First National Bank Block, where he will be located with a complete line of wheels.

Washington, D. C.—The Century Cycle Co. has been incorporated under the laws of Maryland, with C. J. Gillette, president; to buy, sell and manufacture bicycles. Capital stock, $25,000.

Williamsport, Pa.—Rush Tire Co. has been incorporated for the manufacture of rubber goods, with a capital stock of $50,000.

Ypsilanti, Mich.—Huston & Dawson, bicycles, etc., have opened a new store at No. 215 Congress Street.

Changes and Removals.

Benton Harbor, Mich.—The Benton Harbor Bicycle Works, S. F. Schoeltz has sold half-interest to Ora Chapman. The firm will enlarge the plant and increase the business the coming season.

Caldwell, N. Y.—Latham & Smith, sporting goods, etc., succeeded by A. J Latham, who also carries a line of bicycles.

Chicago, Ill.—The plant and fixtures of the Warman-Schub Cycle Mfg. Co., Austin Avenue and Lincoln Street, have been sold to the Lozier Mfg. Co. of Cleveland at a receiver's sale in Judge Dunne's court. The price paid for the property was $26,000.

Detroit, Mich.—The National Tricycle Coach Co. has gone out of business.

Lancaster, Pa.—Straub & Grube, bicycles, reported dissolved.

Lime Springs, Iowa.—S. R. Gray, Hardware, sporting goods, etc., succeeded by A. E. Marsh.

Montreal, Can.—The Arlington Bicycle Co., dissolved.

Phoenix, Ariz.—Rhodes & Shaver, bicycles, succeeded by W. E. Rhodes.

Rochester, N. Y.—Novelty Bicycle Works, reported to have sold to Oliver F. Kingdom.

San Diego, Cal.—John Barlow has bought an interest of Joseph Mumford and J. V. Mumford at the F. S. Ecker Cycle & Arms Co.

Trinidad, Colo.—George Green, bicycles, reported to have sold to Lloyd Zimmerman.

Vancouver, B. C.—J. J. Woods & Co., bicycles, succeeded by Munn & Miller.

Washington, D. C.—George C. Aukum, bicycles, reported to have sold out.

Recent Embarrassments.

Buffalo, N. Y.—The Niagara Cycle Fittings Co, reported to have made an assignment.

Chicago, Ill.—D. P. Workman Supply Co., bicycles, etc., reported to have made an assignment.

Chicago, Ill.—The O'Connell & Griffiths Mfg. Co., makers of bicycles at No. 228 Lake Street, have made an assignment to Frank B. Springer. The assets of the company are estimated at $11,000, and the liabilities at $8000.

Defiance, Ohio.—The Defiance Bicycle Works have been sold at sheriff's sale. The real estate was sold for $5601, and the personal property for $2000.

Greenfield, Mass. —Alfred H. Davey, dealer in bicycles and bicycle sundries, Federal Street, has filed a petition in insolvency.

Reading, Pa.—J. George Ziegler, bicycle manufacturer, has made an assignment.

Toledo, Ohio.—The Nelson Hubbell Bicycle Supply Co. has made an assignment.

Recent Fires.

Genesee, Wis.—George Fox, bicycle factory, destroyed by fire.

Lorain, Ohio.—The bicycle repair shop of Frank Warnock, on West Avenue, has been destroyed by fire.

Rome, Ga.—The E. E. Forbes Music & Bicycle House, damaged by water; insured for $2000.

Miscellaneous.

Bay City, Mich.—The new retail house of the National Cycle Co., next to the factory, will be completed in a short time, when the local trade can be taken care of more comfortably.

Grand Rapids, Mich.—The local bicycle factories will turn out about 17,500 wheels this year, the Grand Rapids Cycle Co. leading with 10,000.

Marietta, Ohio. — The Lobdell Works, manufacturers of bicycle rims and handlebars, which were recently destroyed by fire, will be rebuilt with large increased capacity. These works give employment to 200 men.

Middletown, Conn.—The Keating Wheel Co. have received an order from foreign sources for 800 wheels. The company now have enough orders to insure continuous work for at least a year.

Pottstown, Pa.—The Light Cycle Co. is rushed with orders at present, and recently started working several hours overtime. The plant employs about 150 hands.

Winsted, Conn.—The Winsted Metalliform Co. have recently begun the manufacture of bicycle lamps, on an extensive scale, and have taken large orders. The lamps are designed to burn acetylene gas.

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STERLING BELLS.

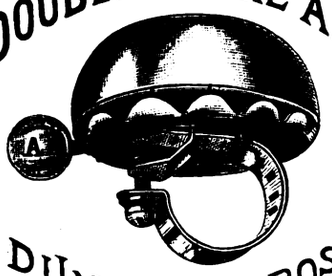


One Best THE Sterling.

Bells of all Description.
Send for Catalogue.

N. N. HILL BRASS CO.,
East Hampton, Conn.

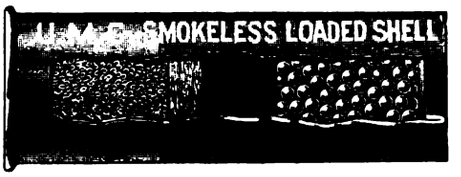
DOUBLE STROKE A.1.



DUNBAR BROS.
BRISTOL, CONN.

U. M. C. Ammunition

HAS WON ITS WAY ON MERIT.



The shelves of the dealer and the belt of the sportsman are the surest proofs.

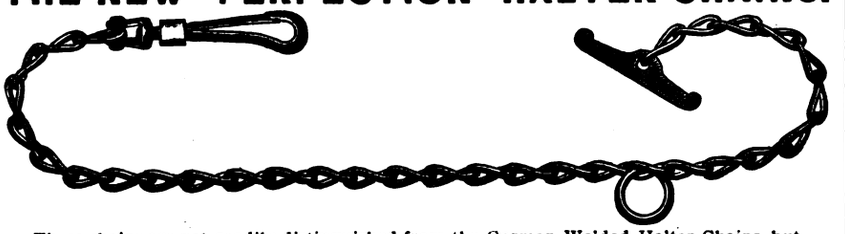
LOADED SHELLS,
SPORTING,
MILITARY and
TARGET CARTRIDGES.

COMPLETE CATALOGUE MAILED FREE.

THE UNION METALLIC CARTRIDGE CO.,

313 Broadway, New York. Bridgeport, Conn. 425 Market St., San Francisco, Cal.

THE NEW "PERFECTION" HALTER CHAINS.



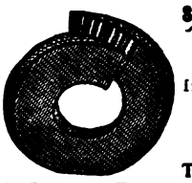
These chains are not readily distinguished from the German We'ded Halter Chains, but same will be found Much Stronger, More Uniform and Lower Priced than the imported article. Send for list and discounts. . . . . .

WE MAKE THE BEST SASH CHAIN—THE "MONARCH."

THE BRIDGEPORT CHAIN COMPANY, Manufacturers. BRIDGEPORT, CONN.



TRADE MARK.



A. CHIPMAN, Treas.

GOULD'S
STEAM & WATER PACKING
Never sticks the Throttle.
The Original Ring Packing.
In ordering give EXACT diameter of Stuffing Box and Valve Stem.
None genuine without this Trade Mark.
THE GOULD PACKING CO.,
EAST CAMBRIDGE, MASS.

Liberal Discount to the Trade



Reasons Why it is the Best.

The DOUGHTY Perfection Automatic Bicycle BELL.

Made of best Bell Metal, highly polished and nickel-plated, Anti-rusting The only Automatic Bell always ready for instant use (fast or slow speed.) No loose parts to rattle and get out of order. Does not roll on tire—only press thumb lever on handle bar—throws little rubber tip in contact with spokes—Bell does the rest. The only Bell with a clear electric ring without a battery. You will pronounce it the Perfection in Bell ringing. **Price $1.00 each.**

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Address 505 SEARS BUILDING, BOSTON, MASS.

An Air Check.

A Good Seller.

DOOR-CHECK and Spring.

WRITE FOR PRICES.



SPEIRS BICYCLES

RUN FAST—MADE TO LAST.

ALSO MANUFACTURERS OF

HUBS AND PEDALS

SPEIRS MFG. CO. WORCESTER, MASS.

GUITERMAN, ROSENFELD & CO., EXPORT AGENTS
35 SOUTH WILLIAMS STREET NEW YORK CITY.

We sell direct to the rider where we do not have an agency.

Correspondence Solicited. *'98 Catalogue Ready.*

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The Very Latest.

Patented Aug. 24, '97.



The "Eclipse Cleanable" Refrigerator is original.

It is the only removable ice chamber refrigerator having a removable flue through which pure cold dry air is introduced in the bottom of the provision room, getting under and between the provisions, and forcing the warm moist air and odors upwards, and creating a positive current or circulation. All other makes are imitations of the first crude removable tank refrigerator introduced years ago, and have an ice box set in top, from which cold, heavy air falls by gravity and forces downward the objectionable matters. THE ECLIPSE HAS THE LARGEST ICE CAPACITY.

HAS ALL THE CLEANABLE FEATURES OF OTHER MAKES.

HAS MORE TALKING POINTS THAN ANY OTHERS.

THE ECLIPSE REFRIGERATOR WORKS, BURLINGTON, VERMONT.

ESTABLISHED 1882.

PARISH & UNGER,

MANUFACTURERS

Empress Lamp Chimneys.

NONE BETTER MADE.



NONE BETTER MADE.

This Trade-mark is Etched on each Chimney. Each Chimney is Papered. In Packages and in Open Stock.

Baida.	Student.
Rochester.	B. & H.
Sun Straight.	Duplex.
Sun Bulb Plain Top.	Belgian.
Sun Bulb Crimp Top.	Princess.
Sun Hinge.	Little Jewel.
Leader.	Gem.
Pinafore.	Welsbach Gas.
Lip.	Globe Incandescent.
Nutmeg.	Pittsburg.
Electric.	Royal.

SALESROOMS,

53 & 55 WARREN STREET, NEW YORK.

☞ WRITE FOR PRICES.

UNDERHILL, CLINCH & CO.,

94 CHAMBERS STREET, NEW YORK.

O. Ames & Sons' Shovels, Spades, Scoops.

Geneva Tool Co.'s Cast Steel Hoes, Rakes, Etc.

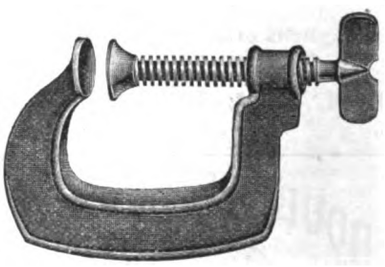
Sheble & Klemm's Manure and Hay Forks.

David Wadsworth's Scythes.

English Riveted Scythes, Grass Hooks and Shuffle Hoes.

Send for our Agricultural Catalogue showing goods carried in stock and new prices.

MOUNT CARMEL CLAMPS.



	EXTRA HEAVY.				EXTRA DEPTH.
To open - -	3½,	4½,	5½,	6½,	7½ in
Depth between Screw and Frame	2¾	3,	3½,	4,	4½ in.

EAGLE SCREW CLAMPS.



To open 2, 2½, 3, 4, 5, 6, 7, 8, 9, 10, 12 inches.

WALTER W. WOODRUFF & SONS,

MOUNT CARMEL, CONN., U. S. A.

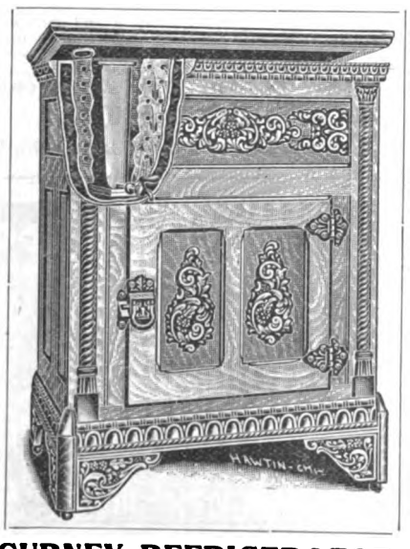
Manufacturers of

COACH AND CARRIAGE HARDWARE, FINE MOUNTINGS

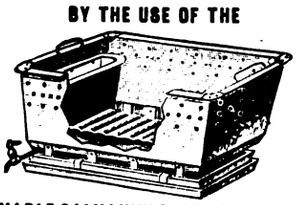
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SPECIALTIES IN MALLEABLE IRON OR COMPOSITION.

The Gurney can be kept absolutely pure and clean



BY THE USE OF THE



REMOVABLE GALVANIZED ICE COMPARTMENT.

The Gurney Leads, Others Follow.

All users testify to the GURNEY'S many points of superiority.

The trade took to the GURNEY as criterion for style and finish.

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Buy the Gurney Patent Refrigerator. It costs no more than imitations claimed to be "*Made like the Gurney.*"

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Also Mfrs. of La Belle and Imperial Refrigerators. Capacity 150 Refrigerators per day.

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THE IVES PATENT DOOR BOLTS.



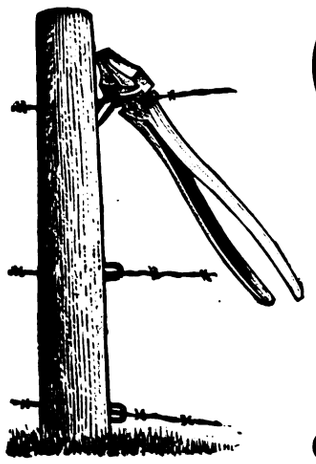
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Leaders with the Trade.

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Cronk's Patent Fencing Plier and Staple Puller. . .

THIS newly invented fencing tool is needed by all people that build or have occasion to remove or repair wire fence, as it is made with two staple pullers, two hammers and two button cutters They are the same weight as the 1½ Maydole Hammer and they are made of forged tool steel. No good farmer will be without one. They are warranted to cut No. 8 hard or No. 6 soft wire. Like the celebrated Cronk Plier they are fully warranted in all respects. No. 12, 11 in. long, $12.00. Dis.

CRONK HANGER CO., - - - - ELMIRA, N. Y.



The Coburn Patent Trolley Track

Overhead Tramway

Furnished complete with straight and curved track, switches, frog brackets, single and double carriers. SEND FOR BOOK.

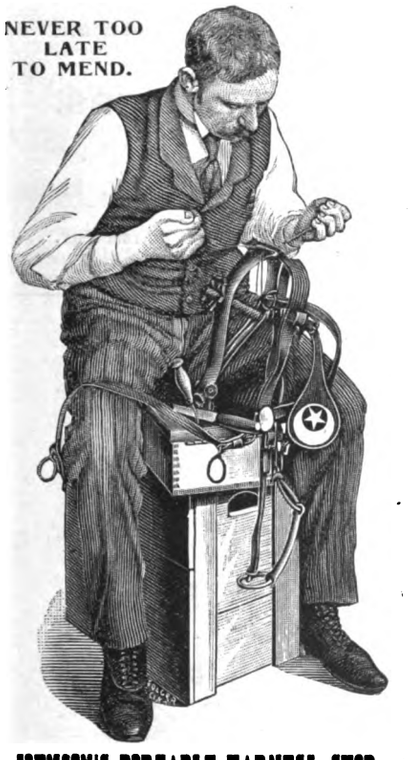
The Coburn Patent Trolley Track

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SEND FOR BOOK. Over 10,000 in use in the United States. Roll suspended from ceiling or facing the shelves. . . . . .



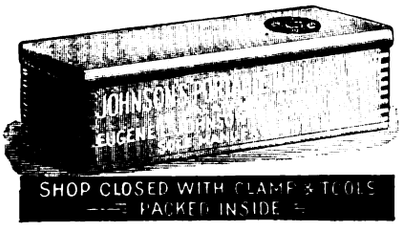
THE COBURN TROLLEY TRACK MFG. CO., HOLYOKE, MASS.



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Is a complete Harness Repair Equipment. The tools and supplies are of standard quality, the seat is a varnished chest (18x8x5) and contains the outfit when not in use. SO SUBSTANTIAL as to last a lifetime. SO PRACTICAL as to be an ECONOMIC NECESSITY to horse owners! Your customers want 'em! Jobbers sell 'em!

EUGENE L. JOHNSON, Sole Manufacturer,
Cincinnati, O., U. S. A.
J. C. McCarty & Co., N. Y. Agents, New York.
CORRESPONDENCE SOLICITED.



BIG SELLERS!



"Family" Shoe, Harness and Tinware Repairing Outfits.

EVERY FAMILY WANTS ONE

Sold by all wide awake Hardware and General Store Keepers. . . .

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MANUFACTURERS AND SOLE PROPRIETORS.

PRICES ON APPLICATION.

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I. B. Bolles, Wareham, Mass. [*Hardware and Farming tools*]: Enclosed find check for $1 for HARDWARE for the year 1897. We think it is well worth it. . . . . .

Plymouth Rock Half Soles

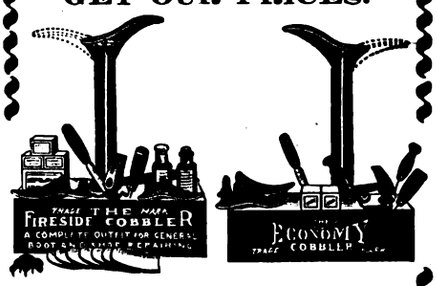
NOT THE FLIMSY KIND,
but reliable taps for a little money.
GET OUR PRICES.

THE ROOT BROS. CO.,
Plymouh, Ohio.

Root's Cobblers' Sets.

The Best Selling and Most Popular Goods Made.

GET OUR PRICES.



JUST OUT!
OUR NEW CATALOGUE OF
Shoe Findings & Saddlery Hardware.
SEND FOR IT.
ADDRESS THE ROOT BROS. CO.,
Plymouth, Ohio, U. S. A.
Originators and Sole Manufacturers.



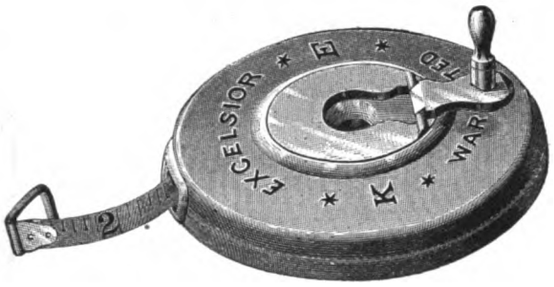
This is the **QUAKER CITY GRINDING MILL**

For CORN and COBS, FEED & TABLE MEAL. Improved for '97-'98. Send for all mills advertised. Keep the best—return all others.

A. W. STRAUB & CO.,
Philadelphia, Pa. & Chicago, Ill.
We handle everything wanted at Chicago office, 48 S. Canal Street.

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KEUFFEL & ESSER CO., NEW YORK,



Manufacturers of

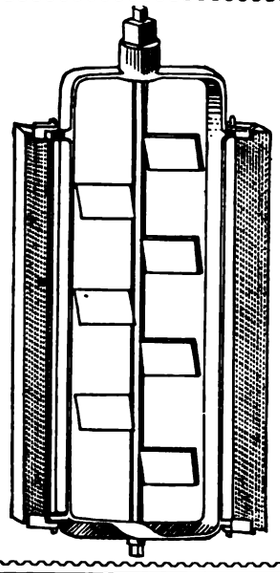
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Our tapes are favorably known since many years. They are

AMERICAN MADE GOODS.

Reasonable in Price. Fully Warranted.

Catalogue and Discounts on Application.



The Original and Most Perfect Automatic Double Wood Scraping Bars are found only in . . . .

WHITE MOUNTAIN FREEZERS.

Malleable Iron Beaters (DON'T BREAK) Duplex two parts working entirely independent of each other are found only in . . . .

WHITE MOUNTAIN FREEZERS.

Easiest, Surest & Most Effective Work—Quickest and Most Satisfactory results are obtained only with . . . .

WHITE MOUNTAIN FREEZERS.

Sold by All Leading Jobbers.
Write for Prices and Fresh Information. . . . .

The White Mountain Freezer Co., NASHUA, N. H.

A complete stock carried in London by our Sole Selling Agents for the United Kingdom: . . . **S. Guiterman & Co.,** 35 & 36 Aldermanbury, LONDON, E. C.

To Bicycle Riders.

WE MAKE OUR TUBE
OF FIFTY CARBON STEEL

Because a Tube like this of our .50% CARBON STEEL

Is just as strong as a Tube like this of .25% CARBON STEEL

While weight for weight in a Bicycle our FIFTY CARBON Steel will last so long [redacted]

and TWENTY-FIVE CARBON Steel will last only so long [redacted]

NOTE THE FULL IMPORT OF THE PARALLEL LINES.

The comparison which they graphically make indicates the result of the prolonged investigations of the most practical experts of the world.

That the tests in our own laboratory corroborate these results is merely so much to its credit; that the same is true of actual trial on the road equally proves the trial to have been made in bicycles of correct design and construction. THE FACT REMAINS.

The margin of safety is greatly increased by the use of this tube. Every bicycle manufacturer should use it; every dealer should insist on having it; every rider should demand it. Send for catalogue.

THE POPE TUBE CO., Hartford, Conn.

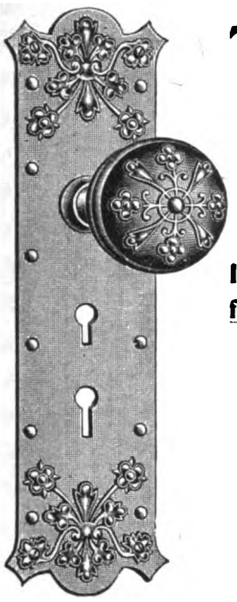


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"GREAT VALUE AS AN ADVERTISING MEDIUM."

Buck Bros., Millbury, Mass. [*Tools*]: We appreciate the great value of your paper as an advertising medium.

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In Old Copper finish is a favorite for

Front, Vestibule.

Inside, and Sliding Door Sets Complete.

Bell Pushes, Etc.

NORWALK LOCK CO.,

Manufacturers of **Builders' Hardware,**

Factory and General Offices,
SOUTH NORWALK, CONN.

SALESROOMS:

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94 Chambers St., (UNDERHILL, CLINCH & CO.)
BOSTON, 200 Franklin St. (CHAS. A. CUNNINGHAM.)
CHICAGO, 36 Dearborn St.
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PHILADELPHIA, 13 North Sixth St. (HERY A. TERRY.)

The Mutual Life Insurance Company

OF NEW YORK.

RICHARD A. McCURDY, President,

Is the Largest Insurance Company in the World.

The Records of the Insurance Department of the State of New York SHOW THAT The Mutual Life

Has a Larger Premium Income,	($39,000,000)
More Insurance in Force,	($918,000,000)
A Greater Amount of Assets,	($235,000,000)
A Larger Annual Interest Income,	($9,000,000)
Writes More New Business,	($136,000,000)
And Pays More to Policy-holders,	($25,000,000 in 1896,

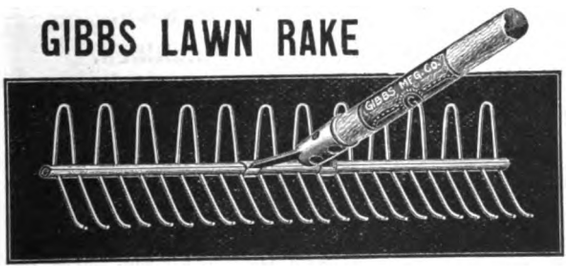
THAN ANY OTHER COMPANY.

It has paid to Policy-Holders since its organization in 1843, ($437,005,195.29)

ROBERT A. GRANNISS, Vice-President.

WALTER R. GILLETTE, - - General Manager,
ISAAC F. LLOYD, - - - 2d Vice President,
FREDERIC CROMWELL, - - - Treasurer,
EMORY McCLINTOCK, - - - - Actuary,
WILLIAM J. EASTON, - - - - Secretary.

GIBBS LAWN RAKE



The Strongest, Lightest and Finest Looking ALL STEEL Rake ever produced. . . . .

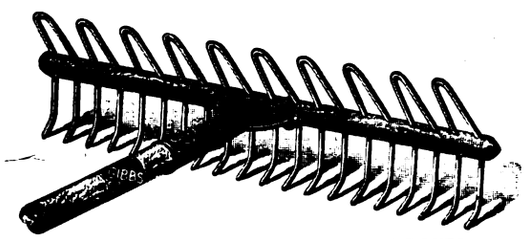
COATED WITH PURE BLOCK TIN.

Note the bend of the teeth—makes raking easy, does better work and won't tear up the sod. One of the special features of the **"Gibbs Rake."**

We represent and offer the largest assortment of the very best make of

LAWN RAKES AND POST HOLE DIGGERS

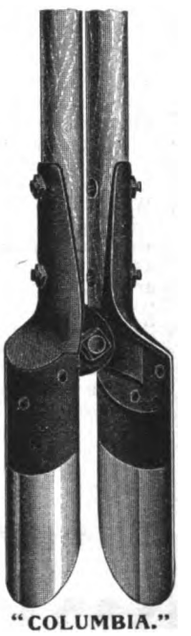
on the market. Write to-day for illustrations and prices.



"MODEL" and "OHIO GIRL" LAWN RAKES.

The success of the **"NEW COLUMBIA" DIGGER** is its simple and durable construction with less liability to breakage.

It works perfectly, gives entire satisfaction and costs no more than inferior goods (if as much).



"COLUMBIA."

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MUST BE WELL POSTED.

Secure the benefit ot all possible Competition in Buying. A Dealer's Reference Book is essential. Here it is. A complete one, independent of any other publication, giving the names of ALL manufacturers, those who do not advertise, as well as those who do. The only work of the kind maintaining this feature. 1898 edition ready in few days. . . . .

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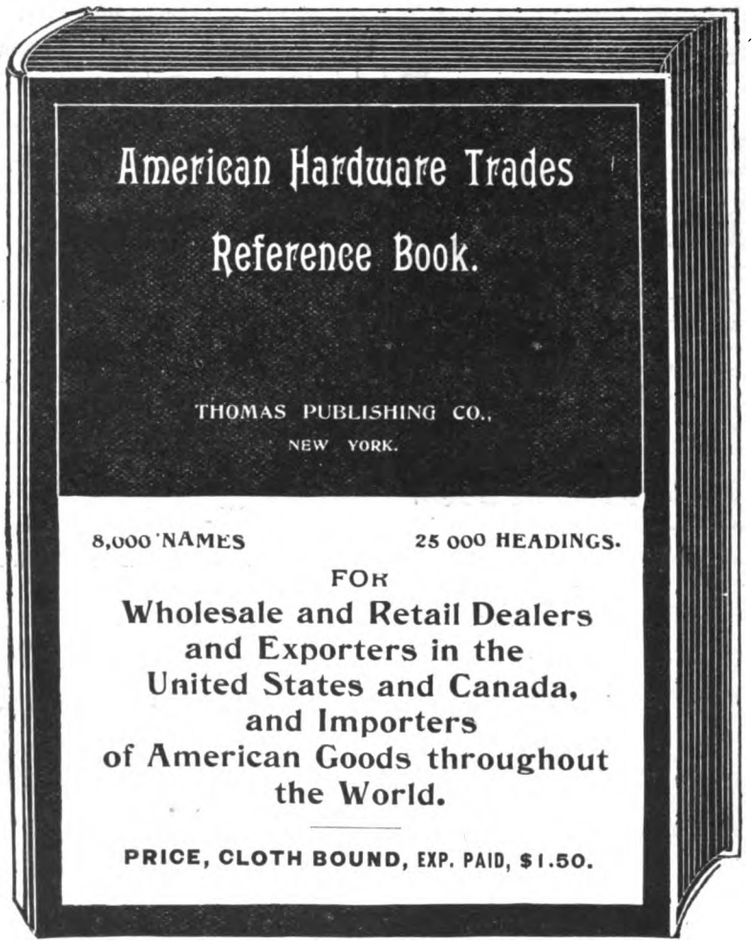
Hardware of All Kinds,

Hardware Specialties,

Agricultural Implements and Machinery of Every Description,

Carriages, Wagons, Harness,

Stoves, Ranges,



Tinware, House-furnishing Goods, Bicycles, Plumbing, Steam and Gas Fitting Goods of all Kinds and all Other Articles, Machines, etc., Handled by these Trades.

The object of the work is to enable the above trades to instantly find all the manufacturers of any article desired; the main and branch offices of every manufacturer in the trade, and the financial rating of every manufacturer.

Completeness.—The names of all manufacturers, regardless of whether they advertise or not. We give the names ver 8,000.

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Those who are already paid subscribers to "Hardware" may take advantage of this offer by sending 50 cents. . .

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We do not agree to hold this offer open for any specified length of time, as it will be impossible to furnish the Book alone at less than $1.50 after these 10,000 are taken.

SEE OPPOSITE PAGE.

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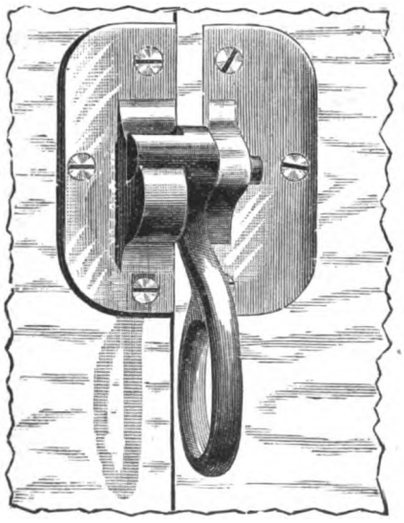
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Refrigerator Fastener.

The only Practical Fastener in use.



Manufactured and sold to the trade by

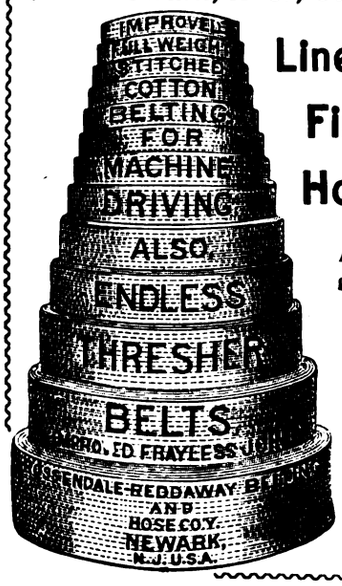
P. J. CONROY,

Beware of Infringements. Paschall, Phila.

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All grades.

Made to meet requirements of Underwriters.

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The kind that won't fly open when you cut the seam. That's the kind we sell. Gutter Hangers and everything else that goes with it. Booklet free for the asking.

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ROGERS' "ANCHOR" BRAND SILVER PLATED WARE.

The "Anchor" Brand is the original and genuine. . . . . Every piece of it impresses one with its individuality and high quality.

Don't let simply the name "Rogers" satisfy you. Look for the "Anchor" Brand, get it and then you're safe. . . .

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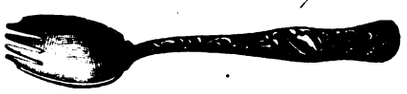
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Would like your business.





Their goods sell

QUICK.

..THEY LAST FOR YEARS..

YOU

Can Guarantee Them.

The Holmes & Edwards Silver Co., - Bridgeport, Conn.

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THE BEST IS EVER AND ALWAYS CHEAPEST.

The merchant can recommend with confidence.
The consumer will report superiority.
Excellence will insure enlarged demand.
Satisfaction will leave no ground for complaint.

Why, then, sell inferior Cutlery when

THE VERY BEST

can be had at a small advance over poorer

QUALITY?

FOR CENTURIES THE WORLD RENOWNED HOUSE OF

JOSEPH RODGERS & SONS, LTD.,

SHEFFIELD, ENGLAND,

Has had neither equals nor superiors in the manufacture of

CARVING KNIVES and FORKS, TABLE CUTLERY, SCISSORS,

RAZORS, HUNTING and BOWIE KNIVES POCKET CUTLERY, &c.

Its Corporate Mark 

Is among the oldest, and now over **200 YEARS** old. It is known the world over as a guarantee that all articles so stamped are absolutely superior to all others.

We are the sole agents in the United States for JOSEPH RODGERS & SONS and carry a full line of their manufactures in stock.

If you cannot procure goods of their make from your jobber we shall be pleased to supply full information on application.

ALFRED FIELD & CO.,
93 Chambers Street, New York.

Established 1836.

ALFRED FIELD & CO.,

93 Chambers and 75 Reade Streets, New York.

Importers of

HARDWARE, CUTLERY, GUNS, ANVILS, CHAINS, FILES.

Sole Agents for

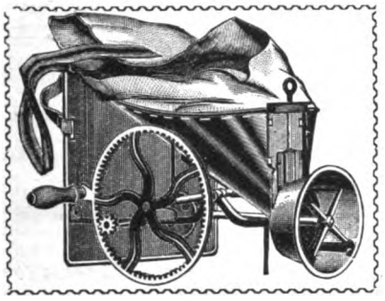
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PEUGEOT FRERES, COATES CLIPPER MFG. CO.	HORSE AND TOILET CLIPPERS.
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hear it said that any other Seed Sower was better in any one respect than

Pearce's Improved Cahoon's Broad-Cast Seed Sower? . . . .

We think not. The superiority of the **"Cahoon" Sower** has been everywhere acknowledged for more than thirty years, and the time has never been when any other was "just as good" by one half. Sows all kinds of grain and cleaned grass seed better than can be done by hand, at least five times as fast and with two-thirds the quantity of seed. . . Hardware dealers can handle nothing that will bring them more money or friends.

Wholesale agencies in all parts of the country, where the trade can be supplied promptly at factory prices.

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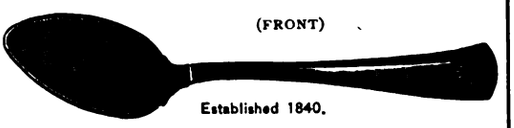
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Highest Grade of

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In Spoons, Forks, Etc.

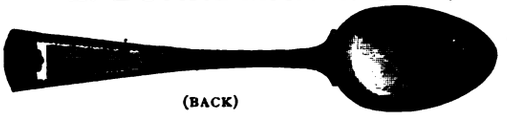
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COMPRESSED CORK GRIPS.

LINED OR UNLINED.

All Sizes — With every style of tip.

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ACKNOWLEDGED THE BEST



Tailors' Shears, Trimmers, Scissors, Tinners' Snips, etc.

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New York Office, 90 Chambers Street.

NEWARK N. J.

TRY SOMETHING NEW.

The **PLANET**

LEATHER



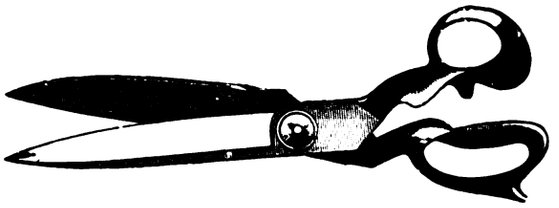
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They are made of leather, with fancy enameled handles. Will not break nor injure finest furniture or upholstery. Made in 4 lengths. Retails popular prices. Write for catalogue and price-list.

PLANET MFG. CO., Holyoke, Mass., U. S. A.

WHEN YOU WANT THE

Best Quality and Finest Finish



SHEARS, SCISSORS & TINNERS' SNIPS

YOU SHOULD HANDLE THOSE MADE BY

J. WISS & SONS, NEWARK, N. J.

We make the Largest line of

Tailor Shears, Trimmers, Barber Shears, Bankers', &c.

WE make a specialty of High Grade Shears suitable for Mill and Factory use. No mechanic can afford to use poor tools. Ours are the **BEST** in the line, consequently the cheapest. . .



TURPENTINE TOOLS.

Dippers,
Hackers,
Pullers,
Scrapers.

UNDERHILL, CLINCH & CO.,

SELLING AGENTS,

No. 94

Chambers Street,

NEW YORK.

TRADE MARK

G.W. BRADLEY'S

SUPERIOR QUALITY

CAST STEEL TOOLS

WESTPORT CONN.

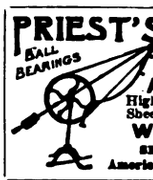
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1 oz. bottles per gro. $5.00
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JOHNSTON'S IMPERIAL CARPENTERS' PENCILS.
OVAL, BEVELED, TRILATERAL, HEXAGON.
—HIGH GRADE.—
Price per gro. $5.00.
J. D. JOHNSTON, Newport, R. I.

RIVETS AND WIRE NAILS.

C. C. & E. P. TOWNSEND,
New Brighton, Penn.

DEAN
LINSEED OIL COMPANY
LINSEED CRUSHERS.
181 Front Street, NEW YORK.

PRIEST'S CLIPPERS


Largest Variety, Toilet, Hand, Electric Power
ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
SEND FOR CATALOGUE TO
American Shearer Mfg. Co., Nashua, N.H., USA

ESTABLISHED 1854.
BOXWOOD AND IVORY
RULES.
STEPHENS & CO., Riverton, Conn., U. S. A.

—ESTABLISHED IN 1874.—
ROCKFORD TACK COMPANY, ROCKFORD, ILL.
MANUFACTURERS OF
HIGH GRADE "Hardware" List of Tacks, Nails, Brads, &c.
Also a full line of Shoe Finder's Tacks and Nails.
—Orders Solicited.—
Prices and terms quoted promptly on application


SUGAR and COFFEE SCOOPS, Wood Door Knobs, Escutcheons, Shutter Knobs, AND Novelties in Wood, Metal, etc.
... Manufactured by
Established 1870.
James F. Martin, 1619 to 1625 Ruan St., Frankford, Phila., Pa.

GEO. W. NOCK, Manufacturer of
KEYS AND Locksmiths' Supplies,
BICYCLE Supplies. . .
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STARR'S GRANITE CEMENT.
Repairs chipped and rusty spots in Graniteware. Stops Leaky Tinware, Copperware, Fibreware, Woodenware, Tin and Iron Roofs, Eave Spouts, &c. Sample and prices free to dealers.
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Hardwaremen's Exchange.

Notices of ***HELP WANTED*** *or* ***SITUATIONS WANTED*** *will be inserted in this column free of charge. Should not exceed Four Lines.*

ALL OTHER NOTICES, *twenty-five cents per line.*

Help Wanted.

TRAVELING salesman for first-class line of American pocket cutlery, on commission, in Missouri and Kansas, or Nebraska and Iowa. Address C. C., care HARDWARE, No. 143 Chambers Street, New York.

EVERY Hardware Dealer to send us his name and address (postal will do) for our circular and prices of Cobbler Sets and "Plymouth Rock" Halfsoles. **They are money makers!** THE ROOT BRO'S CO., Plymouth, Ohio.

GOOD active agents wanted in every city, to sell a positive "Home Cure" for Alcoholisim, thoroughly established. Best of references. Big money to good men and women. Address HOME CURE CO., Akron, Ohio.

EXPERIENCED SALESMAN to travel and sell wire goods and solicit orders on iron work where necessary; state where last employed and salary expected. Address "Wire Goods," care HARDWARE, No. 143 Chambers Street, New York.

Situations Wanted.

POSITION as salesman or collector with Hardware or implement house. Have had twelve years' experience in retail trade; two years on road. Best of references or bond if necessary. Address LOCK BOX 108, Burlington, Kan.

SALESMAN, nine years' traveling experience among wholesale Hardware, stove and house-furnishing trade in Pennsylvania, New York, New Jersey, Maryland and Southern States. A1 New York reference as to ability and character. Age, 30. Address M. F. G., care HARDWARE, No. 143 Chambers Street, New York.

POSITION as clerk in Hardware store; have had twelve years' experience in large retail Hardware store; understand bicycle repairing; speak Scandinavian; A1 references; age, 31. LEW MATSON, Clear Lake, Iowa.

SHEET brass, copper—Any firm engaged, or wishing to engage in this line, either as manufacturers or sales agents, can secure the services of a young man who has had 12 years' practical experience in the manufacture and sale of the above and kindred me als. Is at present employed, but desires a change. Address "SHEET METAL," care HARDWARE, No. 143 Chambers Street, New York.

AN experienced business man, for some time manager of a leading maker of metal bedsteads and ornamental castings, thoroughly acquainted with all details. A1 salesman, unequalled acquaintance with leading buyers; fully qualified to represent an A1 concern; open for an engagement of a salable line. "BUCKEYE," care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman, hustler, 6 years' experience with largest house in Canada, also city references. B. B., care HARDWARE, No. 143 Chambers Street, New York.

A PRACTICAL builders' Hardware salesman, ten years' experience, desires a position in a wholesale house. Can estimate from plans and specifications. Address WOODRUFF, care HARDWARE, No. 143 Chambers Street, New York.

$12 to start. Cheap but good. Wholesale or retail. Ten years' experience in wholesale Hardware and specialties in New York. Age 27. Buying, managing, bookkeeping, manufacturing. Are you looking for a capable all-round man who will increase your business? Best references. "LOCKWOOD," care HARDWARE, No. 143 Chambers Street, New York.

YOUNG man (20) desires position. Four years' experience wholesale Hardware house; rapid figurer; of good address and business tact, knowledge stenography, typewriting and double-entry bookkeeping; best of references. Address "AMBITIOUS," care HARDWARE, No. 143 Chambers Street, New York.

POSITION wanted as buyer, assistant buyer or salesman by young man thoroughly experienced in Hardware, tools, housefurnishing and leather goods, china and glassware. Highest references. H. L. G., care HARDWARE, No. 143 Chambers Street, New York.

BOOKKEEPER.—Competent double entry bookkeeper and cashier of many years' experience, possessing energy and business abilities, is open for engagement with wholesale house or manufacturing concern. Married. Best of references as to character, etc. Address BOOKKEEPER, care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE and bicycles.—Young man of 26, four years as Hardware salesman also about four years in bicycle business, desires position. Understands bicycle business thoroughly. References unexceptional. Address H. & B. SALESMAN, care HARDWARE, No. 143 Chambers Street, New York.

ADVERTISING man wishes to make connections at once with a reliable and financially strong manufacturing company. Is fine writer and designer of advertising matter, and knows when, how and where to place it to advantage. Can take full charge of advertising department. Address EDW. C. WIMBROUGH, No. 530 N. 13th Street, Philadelphia, Pa.

A FIRST CLASS buffer wishes a position; is a first-class worker on Hardware and all kinds of metal; bicycles preferred; union shop if possible. OTTO DIETRICH, No. 7 Comes Street, Newark, N. J.

A YOUNG man, some experience as salesman, would like to engage with a reliable firm where he could learn the business, with view of representing them in the city and nearby trade. Chance of advancement looked for more than salary. G. H. Blanchard, No. 331 West Twenty-first Street, New York.

BICYCLE repairer and builder would like position with Hardware house handling wheels. Capable to take charge of bicycle department entirely; can handle fittings. GEO. GOULD, No. 114 Freeport Street, Dorchester, Mass.

SITUATION wanted as superintendent, assistant or general foreman of machine works or factory. Have extensive experience in managing the manufacture of general and wood-working machinery, machine tools and bicycles; well up in modern machine shop practice, designing and draughting; successful in reducing cost and estimating. Address R. U. S., care HARDWARE, No. 143 Chambers Street, New York.

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Situations Wanted.

POSITION wanted by an elderly man as salesman in a retail Hardware store; city or country; over twenty years' experience. Reference, Peter Duryee & Co., New York City. JOHN BARRETT, Hudson Boulevard, West Hoboken, N. J.

OFFICE MANAGER, fifteen years' experience in general Hardware business as buyer, familiar with all details of manufacturing Hardware specialties, correctly tabulating statistical information, man of ability, judgment and experience, expert financier, with good executive ability, rapid and original letter writer, practical turn of mind, quick, comprehensive and energetic, would like a position; expectations moderate; highest integrity. Address A. B. C., office of HARDWARE, No. 143 Chambers Street, New York.

SITUATION wanted in a wholesale or retail Hardware store. Have had 3 years' experience in retail store. W. H. SIMMONS, Wayland, N. Y.

WANTED by a practical mechanic with eighteen years' experience in the manufacturing of wood-working machinery and iron tools. Has had charge of machine shop for ten years and buying of supplies. A position as superintendent, assistant manager or traveling salesman. A1 references. Address H. A. CANT, Lancaster, Erie County, N.Y.

MAN, thirty one years old, wants to change his position; nine years' experience in retail Hardware as bookkeeper buyer and salesman. Experience on road. A1 city reference given. Moderate salary. Address LOCK, Box 34, Jeannette, Pa.

YOUNG man, 28 years of change, ten years' experience in wholesale builders' and general Hardware in Greater New York in or outside position with wholesale or extensive retail store. Address RUSSELL, care HARDWARE, No. 143 Chambers Street, New York.

BY man 26 years of age, with eight years' experience in Hardware business, can give best of references. Address JERSEY, care HARDWARE-No. 143 Chambers Street, New York.

POSITION as head of department, purchasing agent or salesman, sixteen years' experience; two years with one of the largest retail houses in New York State; first-class references; Eastern States preferred. Address M., care HARDWARE, No 143 Chambers Street, New York.

POSITION wanted as foreman, who has twenty years' experience, understands japaning, burling, bronzing, polishing of all kinds and, general Hardware finishing. Address J. G. K., No. 535 Park Street, Elmira, N. Y.

SALESMAN with an established trade with the Hardware, stove and house-furnishing trade through the Southern States is thoroughly posted in stoves and tinware. Is open for engagement for the coming year 1898. Address SOUTHERN, No. 519 Freemason Street, Norfork, Va.

YOUNG man, (24). Good penman and figurer, 6 years' experience in large wholesale Hardware house in New York City. Excellent references from same. Address W. W. care HARDWARE No. 143 Chambers Street, New York.

A YOUNG man (German) desires position in a Hardware house, wholesale or retail, has some knowledge of the business. Address RELIABLE, care HARDWARE, No. 143 Chambers Street, New York.

Side Line Wanted.

A TRAVELING man, representing a manufacturer on a salary, wants to take some lines of cutlery, Hardware and woodenware specialties on commission in Ohio, Michigan and Indiana. Address 2030 Franklin, care HARDWARE, No. 143 Chambers Street, New York.

WANTED—By a party who represents a line of commission goods; is open for a number of good lines. Address R. H. J., care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman wishes to add good selling line for Hardware, paint, cycle or general store trade. References; state particulars, and address "36," care HARDWARE, No. 143 Chambers Street, New York.

AN A No. 1 side line wanted by a first class specialty salesman, visiting Hardware and cutlery trade throughout New England States. "ESTABLISHED TRADE," care HARDWARE, No. 143 Chambers Street, New York.

TRAVELING salesman throughout New England and Middle States, with permanent address on Broadway, New York, would like novelties and lines of S. M. belts, oil or tailor's shears. Exclusive agency in above territory preferred. Address JOHN F. DOWD, No. 239 Broadway, New York City.

Side Line Offered.

TRAVELING salesmen visiting Hardware, tin and stove department or general store trade in Ohio, Michigan, Indiana and Illinois to carry side line. Seasonable goods and fast sellers. Address "COMMISSION," care HARDWARE, No. 143 Chambers Street, New York.

WANTED—Traveling salesmen visiting the wholesale Hardware and rubber trade to carry an up-to-date patented novelty as a side line. Send 50 cents for sample, post-paid. Address ORDNER MFG. CO., Cleveland, Ohio.

SALESMEN wanted to sell our line of snaps, chain goods and Hardware specialties on commission Expenses guaranteed to right parties. Sell to Hardware and harness trade. Give reference, territory and experience. IRA F. WHITE & SON, 76 Park Place, New York.

To Let.

FRONT portion of loft, one flight up, suitable for manufacturer's sample room; very light; steam heat. Located in heart of wholesale district. Will lease for one year from May 1st. Address "EXCELLENT," care HARDWARE, No. 143 Chambers Street, New York.

ONE of the finest rooms in Ohio, finished specially in hard woods for Hardware trade and used for such twenty-six years, may be enlarged to include tinware, plumbing and roofing. Rare opportunity. Address W. B. Carey, Salem, Ohio.

For Sale.

FOR SALE—Water Power, Mill Buildings, etc., in New Jersey; fifty-miles from New York, on two railroads; for sale, cheap. 35 Nassau Street, New York, Room 1104.

NEW, well selected stock of Hardware, builders' supplies, stoves, paints, etc. Trade well established. Located in a first-class town of 3000 inhabitants. Cousidered the neatest store in Central Ohio. Splendid farming country surrounding Will be sold to dissolve partnership. Address X. Y. Z., care HARDWARE, No. 143 Chambers Street, New York.

A NICE, clean stock of Hardware in one of the most prosperous county seats in Ohio. An established and profitable business. Good reason for selling. Address, immediately, "WARWICK," care HARDWARE, No. 143 Chambers Street, New York.

HARDWARE store twenty miles from New York; doing good business. Rare chance for a live man. Owner will give satisfactory reasons for disposing of same. Price, $3500. Address H. H. G., P.O. Box 2383, New York City.

Attention! Hardware Travelers!

HARDWARE and other traveling salesmen who wish to increase their incomes, will be placed in a position to do so by sending their name and address to the HARDWARE Publishing Co., No. 143 Chambers Street New York.

Agency Wanted.

A TRAVELER with twenty years' experience on the road, and now representing a reputable house, wishes to add to his agencies a line of Hardware, Tools or Cutlery of first-class manufacture. Address "H," care HARDWARE, No. 143 Chambers Street, New York.

WANTED agents to handle a patented, labor saving device of universal sale; investigation solicited by men who desire quick returns from a legitimate, profitable business. Address (C) BURR MFG. CO., Cleveland, O., 823 Society for Savings.

Hardware Specialty Agency Wanted.

A RELIABLE house on the Pacific Coast wants exclusive agency for Hardware and specialties on commission basis. A first-class chance for those who wish to extend their Coast connections. Address A. R. D., care HARDWARE, No. 143 Chambers Street, New York city.

Wanted to Purchase.

WANTED to purchase a retail Hardware, house-furnishing, lumber, building material or coal business in a live, growing town, having a good location, doing a good business. State full particulars and price. JOHN R. SWARTZ, Hughesville, Pa.

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WRITE FOR QUOTATIONS



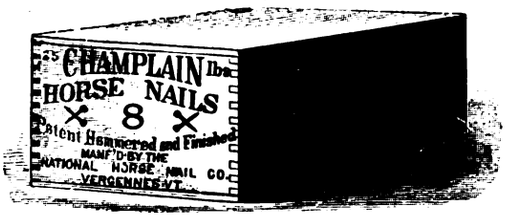
GET OUR PRICES BEFORE ORDERING.

Mention "Hardware."

Send for Price and Illustrated List of

CHAMPLAIN FORGED

ALL SIZES.
ALL PATTERNS.
ALL WARRANTED
SOLD EVERYWHERE.



Manufactured by
National Horse Nail Co.
Vergennes, Vermont.

J. C. McCARTY & CO., Agents, NEW YORK.

Do You Want Something Made?

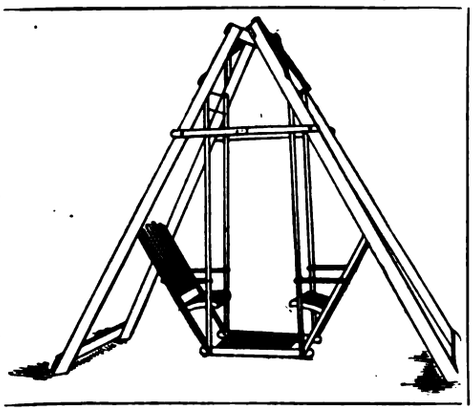
My Specialty is to Manufacture for Other Parties.

Reasonable arrangements can be made. WRITE ME TO-DAY.

C. H. Angus, . Albany, N. Y.

Mfr. of Castings; Nickel and Brass Plating, Metal Pattern Maker, etc.

The ALASKA LAWN SWING.



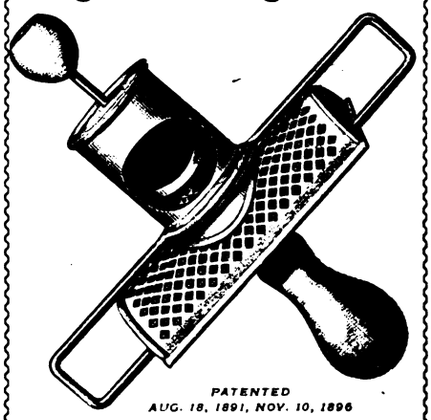
THE demand for the **Alaska** is such that its merits and selling qualities cannot be questioned. Made of good material and well finished. Its peculiar construction is such that it can be easily folded, set up or taken down in an instant. The seats are thoroughly adjustable; can be placed in any position desired. While the **Alaska** possesses many desirable features not found in others, yet its simplicity in construction enables us to quote——

A price to the trade only, of $3.75 each; terms net cash.

DAIN MANUFACTURING CO., CARROLLTON, MO.

THE NEW 1896

Edgar Nutmeg Grater.

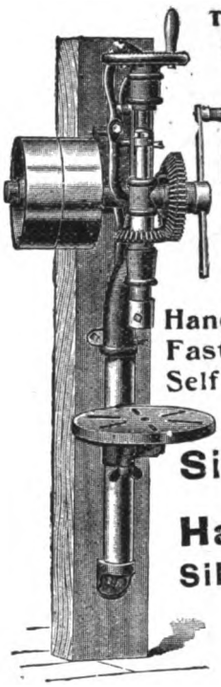


PATENTED
AUG. 18, 1891, NOV. 10, 1896

The ONLY good Nutmeg Grater ever made.

Ask your jobber for it, or send to us for sample.

EDGAR MFG. CO.,
READING, MASS.



The . . .
"Advance"
line
Blacksmith's
DRILLS.

Hand or Power
Fast or Slow Speed
Self Feed

ALSO . . .

Silver's
OLD LINE
Hand Drills.
Silver's Power
Post Drill
Cut Gears, Lever Feed, 19 inch Swing.

Silver's Power Base Drill,
Cut Gears, Combined Lever and Wheel Feed. Round or Square Base, 20 inch Swing. . .

The last two drills are supplied with counter-shafts, and are suited for new work or repairs.

THE SILVER MFG. CO.,
SALEM, OHIO.

Howard Iron Works,

BUFFALO, N. Y.

Manufacturers of

Bench Vises.

Price Lists sent on application.

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PRICES CURRENT.

The prices noted in this Prices Current are intended for the Hardware trade only, and for such quantities as are usually purchased by retail dealers. They are carefully revised and represent quotations at which purchases can be made. Very small quantities, and broken packages, frequently make higher prices necessary.

Subscribers are requested to notify us of any discrepancies, as we desire to make this department of our paper worthy of their constant attention.

The list prices, from which discounts are given, will always be furnished the dealer upon request, by the manufacturer quoted.

Adzes—

House Carpenters.....
Ship Carpenters..... } 40&12½&5
Railroad.....

Ammunition—

CAPS, PERCUSSION—@ 1000—
M. C. Co. and Hicks, trimmed edge.....47 @ 50c
U. M. C. Co. and Hicks ground edge.....47 @ 50c
Musket, Waterproof, 1-10's..45 @ 50c
G. D.....38 @ 80c

CARTRIDGES—
Rim Fire Cartridges.....50&5&2%
Rim Fire Military.....15&5&2%
Cent. Fire, Pistol and Rifle.35&5&2%
Cent. Fire, Military and Sporting 15&5&2%
Blank Cartridges, except 22 and 32 cal., additional 10% on above discounts.
Blank Cartridges, 22 cal.....$1.75 2%
Blank Cartridges, 32 cal.....$3.50 2%
Primed Shells and Bul'ts...15&5&2%
B. B. Caps, Round Ball...$1.10@1.15
B.B. Caps, Con. Ball, Swgd $1.75@1.80

PRIMERS—
Berdan Primers, $1.00. .....2%
B. L. Caps (for Sturtevant Shells) $ 1.00.....2%
All other Primers.....$1.00@$1.10

SHELLS—
First quality, 4, 8, 10 and 12 gauge 25&10&2%
First quality, 14, 16 and 20 gauge $7.50.....25&10&2%
Black Club, Nitro Club, Rival and Climax brands, 10 and 12 gauge, 33⅓&10&2%
Brass Shot Shells, 1st quality..60&2%
Brass Shot Shells, Club, Rival and Climax.....65&2%

SHELLS, LOADED—
"New Club," Black Powder... 40&10&5@40&10&10%
"Black Club," Black Powder... 40&10&5@40&10&5%
"Smokeless" Nitro Powder.... 40&10&10&10%
"Acme," Dense Nitro Powder.. 40&10&10&10%
"Trap," Nitro Powder...40&10& 10&10%

GUN WADS—@ 1000—
B.E., 11 up.60c..B.E., 9&10...70c
B.E., 8.....80c..B.E., 7.....80c
P.E., 11 up.1.00..P.E., 9&10..$1.25
P.E., 8...1.50..P.E., 7.....1.50
} 20&2%

SHOT—
Drop Shot, sizes smaller than B, 25-lb bags @ bag.....$1.22
Drop Shot, sizes smaller than B, 5-lb bags, @ bag.....$ .30
Drop Shot, B and larger sizes, 25-lb bags, @ bag.....$1.47
Drop Shot, B and larger sizes, 5-lb bags, @ bag.....$ .35
Buck Shot, 25-lb bags, @ bag...$1.47
Buck Shot, 5-lb bags, @ bag....$ .35
Chilled Shot, 25-lb bags, @ bag.$1.50
Chilled Shot, 5-lb bags @ bag..$ .35
Dust Shot, 25-lb bags, @ bag....$2.00
Dust Shot, 5-lb bags, @ bag.....$ .50

POWDER—
Laflin & Rand Powder Co.:
Orange Rifle "Extra," F, FF, FFF, in kegs 25 lb.....$4.00
½ kegs 12½ lb..... 2.25
¼ kegs 6¼ lb..... 1.25
1 lb canisters..... .25
½ lb canisters..... .15
¼ lb canisters..... .12
Orange, Special, Nos. 1 and 2, in kegs, 25 lb..... 5.00
½ kegs, 12½ lb..... 2.75
¼ kegs, 6¼ lb..... 1.50
Orange Ducking, Nos. 1 to 5, in ¼ kegs, 6¼ lb..... 2.25
1 lb canisters..... .45
Orange Lightning, Nos. 1 to 7, in 1 lb canisters..... .75
[For 1000 lb lots 10% discount.]
Laflin & Rand W.-A. Smokeless:
Single Canisters.....$1.00
10-Can Drums.....$9.00
Discounts on application.
Blasting and Mining, "A," in kegs, 25 lb.....2.25
Blasting and Mining, "B," in kegs, 25 lb.....1.50

CANISTER POWDER—
E. I. Du Pont De Nemours & Co.: In cases of 25 each.
Crystal Grain, Nos. 1, 2, 3 and 4, in canisters of 1 lb each...$ .75
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of 1 lb each..... .45
Eagle Duck Shooting, Nos. 1, 2 and 3, in canisters of ½ lb each..... .30
Eagle Rifle and Superfine Sporting, in canisters of 1 lb each..... .45
Du Pont Rifle, Fg, FFg and FFFg, in canisters of 1 lb each..... .25
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ½ lb each..... .15
Du Pont Rifle, Fg, FFg and FFFg, in canisters of ¼ lb each..... .12

KEG POWDER—
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 25 lb.....$3.00
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 12½ lb..... 1.75
Eagle Duck Shooting, Nos. 1, 2 and 3, in Kegs, 6¼ lb..... 2.25
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" FG, in Kegs, 25 lb..... 4.60
Du Pont Rifle, FFFg, FFg and "Sea Shooting" Fg, in Kegs, 12½ lb..... 2.35
Du Pont Rifle, FFFg, FFg, and "Sea Shooting" Fg, in Kegs, 6¼ lb..... 1.25
"V. G. P." for Trap Shooting, in Kegs, 25 lb..... 4.00
"V. G. P." for Trap Shooting, in Kegs, 12½ lb..... 2.25
"V. G. P." for Trap Shooting, in Kegs, 6¼..... 1.25
Choke Bore, Nos. 5 and 7, in Kegs, 25 lb..... 5.00
Choke Bore, Nos. 5 and 7, in Kegs, 12½ lb..... 2.75
Choke Bore, Nos. 5 and 7, in Kegs, 6¼ lb..... 1.50
Mealed Powder, in Kegs, 25 lb. 4.00
Shipping Powder, F, FF, FFF, FFFF and FFFFF, in Kegs, 25 lb..... 2.15
Mining and Blasting Powder, (A), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 2.15
Mining and Blasting Powder, (B), C, F, FF, FFF, FFFF, in Kegs, 25 lb..... 1.40
Du Pont Sporting Powder, for lots 1000 lb 10% discount:
Du Pont Smokeless Powder:
Kegs, equal in bulk, to 25 lb Black Powder.....$23.00
Half Kegs, equal in bulk to 12½ lb Black Powder..... 11.25
Quarter Kegs, equal in bulk to 6¼ lb Black Powder..... 5.75
Canisters, equal in bulk to 1 lb Black Powder..... 1.00
Discounts on application.

HARD GRAIN SMOKELESS—
TARGETS AND TRAPS, INANIMATE—
Cleveland Target Co.:
Blue Rocks @ 1000.....$5.50
Expert Traps, each.....$5.50
Extension Traps, each.....$4.00

Animal Pokes—

R. W. Montrose, Galien, Mich.:
Camp's Success.....@ doz. $3.50
Galien Safety.....@ doz. $3.75
Hartman's Pivot.....@ doz. $4.75
Iowa Farming Tool Co.:
Hawkeye.....@ doz. $3.25
Western.....@ doz. $3.75

Anti-Rattlers—

Fernald, Wire....@ doz. pairs. .75
Burton's, No. 2....@ doz. pairs. .75
Burton's, with bolt holder, No. 1.....@ doz. pairs.$1.00
Kohler's:
Invisible, No. 3.....@ gro. $6.60
Perfect, No. 2.....@ gro. $7.00
Bolt Holder, No. 1.....@ gro. $9.00

Anvils—

American "Horse-Shoe"...8¼@9¾c
Armitage's Mouse Hole.....8¾@9¾c
Eagle Anvils, @ lb 9c.....15@15&5%
Hay-Budden, Wrought.....8¼@8¾c
Peter Wright's.....9¾@10¼c
Samson.....8¼@9c
Trenton.....8¼@9c

ANVIL AND VISE COMBINED—
Cheney Anvil and Vise.....40%
Holt's.....40@40&10%
Millers Falls (with drill) $15.00..20%

Augers and Bits—

Boring Machine.....75@75&10%
Cincinnati Tool Co.:
Brace twist drills for metals. 50&5@50&10%
Brace twist drills for wood. 40&5@40&10%
Screw and plug.....35&10&10%
Cleveland Wood Bits for Brace, Style A, No. 114.....50&5%
Common Auger Bits...75&5@75&10%
Cook's Circular Lip.....60%
Cook's N. H. Copper Co.....60%
Forstner Pat. Bits.....35%
Ives' Circular Lip.....65%
C. E. Jennings & Co.:
Double Spur pattern car, No. 20.60%
Nobles Double Spur, No. 33.70&10%
No. 10 Extension Lip.....40%
No. M Extension Lip pattern car bit.....40%
Pat. Car Bits, No. 10.....40%
Pat. Car Bits No. 30.....60%
Ring Augers.....70&10%
Pugh's Black.....20%
Snell's Bits.....60&10&10@70%
Russell Jennings' Augers and Bits. 35&10&2½&5

HOLLOW AUGERS—
Bonney's Adjustable, No. 4, $34.00. 20%
Cincinnati Adjustable.....25&10%
Cincinnati Standard.....25&10%
Douglass'.....33⅓@33⅓&10%
Ives.....33⅓@33⅓&10%
Millers Falls, Goodell....15&7½&10%
Universal, each $4.50.....20%

EXPANSIVE BITS—
C. E. Jennings & Co.....33⅓&5
Cincinnati.....25&10&10%
Clark's small, $18.00.....45%
Clarks' Large, $36.00.....45%
Ives' Model, @ doz. $60....50@50&10%
Steer's No. 1, $36; 2, $18.....40%
Stearns' No. 2, $48.....20%
Swan's.....40@40&10%

GIMLET BITS—
Diamond @ dos. $1.25.....40&10%
Double Cut, Shepardson's.45&10@ 50&10%
Double Cut, Common, @ gro. $2.75 @$3.25
Double Cut, Douglass'....40&10@50%
Double Cut, Ladds'.....70%
C. E. Jenning & Co.:
Double Cut.....70%
German.....50%

BIT STOCK DRILLS—
Cincinnati Tool Co., for wood.40@ 40&10%
Cleveland Wood Bits for Brace 50&5%
Detroit.....60@70%
K. & F.....60&10&10&5%
Syracuse, for wood.....40%
W. & B. Diamond.60&10@60&10&10%

TWIST DRILLS—
Cleveland.....60&10@70%
Detroit.....60&10&5@70&5%
K. & F. Straight Shank..60&10&10%
Morse Twist Drills.....60&10@70%
New Process.....60&10@70%
Standard.....60&10@70%
Syracuse.....60&10@7 %
W. & B Diamond.....60&5@60&10%
W. & B. Universal Self-Oiling...10%

SHIP AUGERS AND BITS—
L'Hommedieu's.....15&10%
Snell's.....60&10@40%
Watrous'.....40%

Awls—

Dunlap's Brad.....35%
Dunlap's Handled.....35%
Handled Brad, @ gr.....$3.00@$3.25
H'ld Scratch @ gr.....$3.75@$4.00
Pat. Peg @ gr.....30@35c
Sewing, Com.....@ gro., 85c@$1.00
Should. Peg @ gr.....$1.25@$1.45
Shouldered Brad. @ gr...$1.50@$1.65
Sooket Scratch @ dos....$1.00@$1.10
Stanley Rule & Level:
Handled Brad.....40&10%
Patent Pegging.....50&10%

Awl and Tool Sets—

Aiken's Awls and Tools:
No. 10 @ doz. $7.50; No. 20, @ doz. $10.....60&10@60&10&5%
Brad Sets:
No. 42, $10.50; 43, $12.50...70&10&5%
Fray's Adj. Tool Hdls., Nos. 1, $12; 2, $13; 3, $12; 4, $9; 5, $7.....50%
Ice Awls.....55%

Millers Falls Adj. Tool Holders. Nos. 1, $12; 2, $13; 4, $12; 5, $18.. 15@15&10%
C. E. Jennings & Co.'s Adjustable Tool Handle, No. 10, $3.50; 45, $4.50; 65, $6.00; 75, $9.00; 175 $10.00 @ dozen net.

Axes—

First quality, best brands.$5.00@5.25
First quality, other " $4.50@4.75
Beveled add 50c @ doz.

AXES, HANDLED—
Peck's:
Champion Blade...per doz., $12.00
Empire.....per doz., $9.00
Firemans'.....per doz., $36.00

HATCHETS—
Collins.....10%
Findlay Axe & Tool Co...50@60&10%
Hunt's, Underhill's or Blood's... 50@50&10%
Peck's:
Champion Blade.....45%
Empire Brand.....60&10%
Fayette R. Plumb:
Broad, New List.....40&12½&5
Lathing.....50%
Shingling.....50%
Warehouse.....40&12½&5
Vulcan Tool Co.....60%

Balances—

Chat llon's:

No.	2000	20	30
@ dos.	75c	85c	$1.65 net

Circular Balances.....60%
Straight Balances.....50%
Circular Spring Balances.50&10@60%
Common 24 lb. .....@ dos. 80c net.
Ice.....60&10%
Straight Spring balances.50&10@60%

Barrel Drainers—

National.....30%

Beef Shavers—

Enterprise:
Japanned, each, $6.50.....20%
Tinned, each, $7.50.....20%

Bells—

HAND—
Extra Heavy Brass.....65&10%
Light Brass.....70&10%
Globe (Cone's Patent).....40%
Silver Chime.....40%
White Metal.....65&10%

DOOR—
Crank, Cone's.....10%
Gong, Abbe's.....40@40&10%
Gong, Barton's.....40&10@60%
Gong, Yankee.....55&10%
Lever, R. & E. Mfg. Co.'s.60@60&10%
Multi-Stroke.....60%
New Departure.....45@50%

COW—
Common Wrought.....60&10%
Dodge, Genuine Kentucky 70@70&10%
Kentucky, Sargent's List.....75%
Texas Star.....60&10%
Western, Sargent's list.....75%

Bellows—

Blacksmith's.....70@70&10%
Hand.....50&5@50&10&5%
Moulders.....50&5@50&10&5%

Belting, Rubber—

Boston Belting Co.;
"Boston".....60&10&5%
"Imperial," seamless, stitched 40&5%
Cleveland Rubber Co.:
Buckeye.....60&10%
Shield High Grade.....50&10%
War. 2 XL.....40%
Common Standard.75&10@75&10&5%
Extra.....60&10&5@70%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@75%

Bench Stops—

Cincinnati.....10@15&10%
Morrill's No. 1, $10.00 per doz.; No. 2, $11.00.....40&20%
Seymour Smith & Sons..@ doz. $5. 10@10&10%
Terrell's No. 1 and 2, $3; No. 3, $3.00 @ doz.....30%
Millers Falls.....15&10%

Bicycle Tires—

W. & B .....@ pair, $6.50
W. & P.....@ pair, $7.00

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Bit Holders—

Angular....40&5%
Extension:
Barber's, ₱ doz. $15.00....45%
Ives' ₱ doz. $30.00.60&10@60&10&5%

Blind Adjusters—

Domestic..₱ doz. $3., 33⅓@33⅓&10%
Excelsior..₱ doz. $10.00....50&10&2%
N rth's....10%
Zimmerman's....50&10@50&10&10%

Blind Fastenings and Tenons—

Austin & Eddy ₱ gro. sets....$5.50
Gorhans Improved Star Tenon ₱ gro. $1.00....35%
Merriman's Brass Lever ₱ gr. $15.00
Merriman's Iron Lever ₱ gr...$9.00
Millers Falls ₱ set $1.00....15&10%
Security Gravity ₱ gr....$9.00
Van Sand's....55&10%
Washburn's Plate ₱ gr....$9 00
Zimmerman's....50&10@60&10&5%

Blocks—

Cleveland Block Co. Steel 60&10@70%
Com. Jap'd Sheaves...70&5@70&10%
Lanes:
Junior, Self Sustaining....30%
Pat. Automatic....3..
Perfect Safety....30%
Stowell Novelty Block....50&10%
Regular Iron Strapped Blocks 70&5@70&10%

Bolts—

DOOR AND SHUTTER—

Cast Iron Barrel, Square, &c....70%
Cast Iron Chain....50&10%
Cast Iron Shutter Bolts....70%
Ives' Patent Door Bolts...60&10&5@60&10&10%
Wrought Barrel....75&10@8 %
Wrought Square..70&10&10@75&10%
Wrought Shutter, Standard list.. 60&10&5@70%
Wrought Shutter, Sargent's list.. 60&10&5@70%
Wr't Sunk Flush, Sargent's list. 50&10@50&10&10%
Wr't Sunk Flush, Stanley's list 50&10@50&10&5%
Wr't B. K. Flush, Com'n, Stanley's list....60&10@60&10&5%

CARRIAGE, MACHINE, &C.—

Bolt Ends....80@80&5%
Machine....80@80&5%
Carriage, Common....75&5@75&10%
Norway Iron, list Oct. '84..5&10@75&10&5%
Phila., Eagle, list $3.00....85&10%
R. B. & W., $2.40 list....70%

TIRE—

American Screw Co.:
Bay State, Plain list Feb. 26, '96, 75&10%
Bay State, Fluted....75&10%
Eagle Phila., list Feb. 26, '96....85%
Norway, Phila., list Feb. 26, '96.80%
Common, list Feb. 26, '88..75@75&10%
Eagle....85%
R. B. & W., list Oct. 16, '84....80%

STOVE AND PLOW—

Plow....70@70&10%
R. B. & W., Plow....65%
Stove....75&10%

MISCELLANEOUS—

Sink....75&10%
Sleigh Shoe....85%

Bone Mills—

Enterprise....20%

Borers, Tap—

Common and Ring....30&10@35%
Enterprise, No. 1, $1.25; 2, $1.65; 3, $2.50 each
Ive's....33⅓&5%

Boring Machines—

Without Augers.	Upright.	Angular.
Douglass'....	$2.50	$3.00
Jennings'....	2.50	3.00
Millers Falls....	7.50	15&10%
Other Machines....	2.25	2.50....net
Phillips' Patent with Augers....	7.00	10 ..
Snell's. Rice's Pat.	2.50	$2.75

Bow Pins—

1¾ inch, ₱ gro....$4.50@$5.00
inch, ₱ gro....$5.00@$5.50

Boxes, Mail—

Heller's....40&5%

Braces—

Barber's....50&10@60&10%
Barber's Ratchet....60@60&10%
Bartholomew's:
Nos. 25, 27 and 30....70@75%
Nos. 117, 118, 119....70&7%
Common Ball American..$1.10@$1.20
Ives':
Barbers'....60&5%
Barber Ratchet....60@60&10%
New Haven Novelty....70@70&10%
New Haven Ratchet. 60&10@60&10&10%
Spofford....60&5@60&10%
C. E. Jennings & Co.:
No. 108@114c....60&10%
No. 208½@218½....60%
Lancaster Mach. & Knife Works. 45%
Peck's (P. S. & W. Co.)...60@60&10%
Gen. Spofford's....50&10&5%

Brackets—

Door Screen....70&10%
Moore's....70&5%
Shelf, Bradley's Patent....80&10%
Shelf, Plain, Regular list....70&10%
Shelf, Fancy, Sargent's list. 60&10@60&10&5%
Window Screen Corner....70&10%
Reading, plain....70%
Reading, Rosette....70%

Bright Wire Goods—

Standard list....85@85&10%

Bull Rings—

Humason, Beckley & Co.'s. 80@80&10%
Peck, Stow & Wilcox Co.'s. 60@60&10%
Sargent's....80@80&10%
Seymour Smith & Sons....60%

Butcher's Cleavers—

Beatty's....40&5@40&10%
Bradley's....35@30%
Dunlap's Family....35%
Foster Bros. Flat Hds....30%
Foster Bros. Round Hds....40%
Lancaster Mach. & Knife Works. 40%
L. & L. J. White....35%
New Haven Edge Tool Co.'s....40%
P. S. & W....33⅓&5@33⅓&10%

Bung Hole Borers—

Enterprise....35%
C. E. Jennings & Co.:
No. 6....40%
No. 10....30%

Butter and Cheese Triers—

Ordinary Black Handle....35%

Butt and Rabbet Gauges—

Stanley's....35&10%

Butts—

BRASS—

Cast Brass, Fast Joint....40@40&10%
Cast Brass, Ice House....40%
Cast Brass, Loose Joint...40@40&10%
Wrought Brass, List Sept. '96. 4..@40&10%

CAST IRON—

Loose Joint....75@75&5%
Loose Joint, Japanned....75@75&5%
Loose Joint, Jap. with Acorns, 75@75&5%
Loose Pin....75@75&5%
Mayer's Hinges....75@75&5%
Parliament Butts....75@75&5%
Sargent's:
Fast Joint, Broad....60&10%
Fast Joint, Narrow, ...60@60&10%

WROUGHT STEEL—

List, April 1, 1895.
Bronzed Inside Blind Butts. 50&10@50&10&5%
Bronzed, Narrow...50&10@50&10&5%
Fast Joint, Narrow, } 75%
Fast Joint, Light Narrrow.... } 75%
Fast Joint, Broad.... } 75%
Loose Joint.... } 75%
Loose Pin.... } 75%
Table Butts, Back Flaps, etc.. } 75%

Can Openers—

American....₱ gross $1.75@$1.90
Columbian....₱ gro. $14.40
Dunlap's Iron Handle, No. 8 ₱ gr. $13.00....25%
Dunlap's Sardine Scissors, ₱ doz. $5.00....25%
Dunlap's Wood Handle No. 2 $1.75. 25%
Goodell's Acme....₱ gr. $6.00
No. 5, Iron Handle. ₱ gr....$3.00@3.25
Sardine Scissors...₱ doz. $2.00@2.25
Sardine Scissors, Forged Steel, ₱ doz. $4.00@$4.50
Sprague, No. 1, $2.00; No. 2, $2.25; No. 3, $2 50....70&10%
Universal ₱ doz. $5.00....55&5%
World's Best, ₱ gr., No. 1, $12.00; No. 2, $24.00; No. 3, $36.00...50& 10%

Cards—

Cotton....20@25%
Horse and Curry....20@25%
Wool....20@25%

Carpet Stretchers—

Bullard's....33⅓%
Cast Iron Steel Points, ₱ doz. 75c@$1.00
Cast Steel, Polished....₱ doz. $2.25
Dunlap's....25%
Excelsior....25%
Socket....₱ doz. $1.75

Carpet Sweepers—

Bissell's:
Gold Medal.... } Cyc. Bearing. ..₱ doz. $24.00
Grand.... } Cyc. Bearing. ..₱ doz. $36.00
Grand Rapids. } Cyc. Bearing. ..₱ doz. $22.00
Hall.... } Cyc. Bearing. ..₱ doz. $60.00
Prize.... } Cyc. Bearing. ..₱ doz. $24.00
Premier.... } Cyc. Bearing. ..₱ doz. $24.00
Superior.... } Cyc. Bearing. ..₱ doz. $24.00
Crown Jewel, japan finish, ₱ doz $19.00
Crown Jewel, nickel, ₱ doz. $21.00
Furniture Protector, Japan....₱ doz. $22.00
Furniture Protector, Nickel....₱ doz. $24.00
"Standard A," Jap...₱ doz. $20.00
"Standard A," Nick..₱ doz. $22.00
Standard....₱ doz. $24.00
Lots of 5 dozen $1.00 per doz. less.

TOY LINE—

Baby....₱ doz. $2.50
Child's....₱ doz. $3.00
Little Jewel....₱ doz. $3.00
Little Queen....₱ doz. $4.00
Misses....₱ doz. $9.00
Quantity rebates on application.

Goshen Sweeper Co: New Prices Per Doz.
Goshen's Junior....$ 9 00
Eureka....$12 00
Ladies' Friend No. 1....$15.00
Ladies' Friend No. 2....$16 00
Champion....$17.00
Our Leader....$18.00
Unrivalled, Broom-Action, Jap....$18.00
Unrivalled, Broom-Action, Nic....$20.00
Star, Broom-Action, Jap....$19.00
Banner, Broom Action, Jap. $2 .00
Banner, Broom-Action, Nic. $ 2.00
Reliable, Broom-Action, Jap. $ 0.00
Reliable, Broom-Action, Nic. $22.00
Rapid, Broom Action, Jap...$20.00
Rapid, Broom-Action, Nic.. $22.00
Select, Broom-Action, Jap..$20.00
Select, Broom-Action, Nic...$22.00
Easy, Cam-Action, Jap.....$20.00
Easy, Cam Action, Nic.....$22 00
Gilt Edge, Cam-Action, Nic. $2 .00
Acme, Cam Action, Nic.....$24.00
Common Sense, Cam-Action, Nic....$24 00
Our Best, Cam-Action, Nic..$24.00
Majestic, Cam-Action, Nic..$21.00
Our Own, Cam-Action, Nic..$24.00
Imperial, Cam-Action, Nic. $25.00
Model, Cam-Action, Nic.....$24.00
Grand Republic, Broom-Action, Nic....$38.00
Mammoth, Broom-Action, Nic....$72 00

Casters—

Bed....60&10&10@70%
Deep Socket....60@ 0& 0%
Giant Truck Casters....35%
Gwinner's Common Sense....50%
Gwinner's Hercules....50%
Martin's Patent (Phoenix). 60@60&5%
Plate....60&10&10@70%
Socket Truck Casters..45&10@45&10&10%
Stationary Truck Casters....50&10%
Store Truck....55%
Swivel Truck....60&10&10%
Tucker's Patent, low list..50@50&5%
Yale Casters, list May, '84....50&5%
Yale Gem....70&10&5%

Cattle Leaders—

Humason, Beckley & Co.'s 70&10@70&10&10%
Peck, Stow & W. Co....66⅔%
Sargent's....70&10@70&10&10%

COW TIES—

American....60&10%
Covert's Horse and Cattle:
Jute....45%
Manilla....45%
Sisal....45%
Triumph....45%

Chain—

American Coil, Ass'n cask prices.

3-16	¼	5-16	⅜	7-16	½	⅝	¾
$5.50	4.10	3.10	2.75	2.70	2.50	2.35	2.25

Bridgeport Chain Co.:
Brown, Coil....60&10&5%
Brown, Halter....60&10&5%
Monarch, Sash....60%
Triumph, Coil....60&5%
Triumph, Halter....60&5%
Covert Saddlery Works:
Breast Chain....60&20%
Hitching Chain....60&20%
Rein Chain....60&20%
Covert Mfg. Co. Chains....45%
Covert's Halter Chains....45&2%
Covert's Heel Chains....45&2%
Galvanized Pump Chain, with Buckets....5@5½c
German Coil....60&10&5@70%
German Halter Chain. 60&10&5@70%
Jack Chain, Iron....70@70&10%
Jack Chain, Brass....70@70&10%
Oneida Halter Chain....60@60&10%
Plumbers....60%
Trace, Wagon and Fancy Chains, 60&10&10@70&5%

Chain Guards—

Aluminum S. & N. Co....50%

Cherry Stoners—

Enterprise....25%
Family....net ₱ doz. $4.00

Chisels—

SOCKET FRAMING AND FIRMER—

Buck Bros....30%
Charles Buck....30%
Douglass....75@75&10%
Hinsdale....
Mix....
Ohio Tool Co....
P. S. & W....
Sag Harbor Tool Co....
Swan....
Winsted Edge Tool Co.... } 75&10&5%
C. E. Jennings & Co. No 70....35&10%
Jennings & Griffin Mfg. Co....75&5%
Merrill & Wilder....60&10%

TANGED AND MISCELLANEOUS—

Buck Bros....30%
Butchers'....$4.75@$5.00 to $
Cold Chisels, good quality, ₱ lb 14c@16c
C. E. Jennings & Co....30%
Jennings & Griffin Mfg. Co. Tanged Chisels and Gouges....40&10%
Spear & Jackson's....$5 to $
Tanged Firmers'....50@50&10%

Chucks—

Beach Pat....each $3.00....30%
Cushman's:
Combination....40%
Independent....30%
Morse's Adjustable, each $7.00...25%
Syracuse, Bals Pat....30%
Skinner's Pat. Drill Chucks....30%
Skinner's Ind't Lathe Chucks....40%
Skinner's Pat. Comb. Chuck....40%
Union Mfg. Co.:
Combination....40%
Independent....40%
Universal....40%
Victor, No 1, $8.50; No. 2, $12.50. 25%

Clamps—

Adjustable, Cincinnati ...15@15&10%
Adjustable, Hammers....10@15&5%
Adjustable, Stearns'....30@30&10%
Cabinet Makers, Sargent's....45&10%
Carpenters', Cincinnati...15@15&10%
Carriage Makers', Sargent's.. 50&10@50&10&5%
Carriage Makers' P. S. & W. Co.. 40&10%
R. I. Tool Co.'s Wrought Iron....25%
Smith's:
Eccentric....25%
Splicing....25%
Splicing Tools....25%
Warner's....40&10@40&10&5%

Cleaners, Sidewalk—

Challenge Shank....₱ doz. $3.25
Star Shank....₱ doz. $1.50
Star Socket....₱ doz. $3.75

Clippers—

HORSE—

Chicago Flexible Shaft Co.'s:
Chicago Belt Clipping Machine, Each $15 00..15%
New '98, Chicago..Each $1 .75..15%

TOILET

Chicago Flexible Shaft Co.'s:
Handy....₱ doz. $7.20 net
Mascott....₱ doz. $3.40 net
Monitor....₱ doz. $9.0 net
Stewart Pat....₱ doz $10.00 net

Clips—

Norway Axle....70@70&10%
Norway Spring Bar Clips. 70@70&10%
Superior Axle Clips....70&10@75%

Coffee Mills—

Box and Side....60&10@60&10&5%
Enterprise Mfg. Co....35%
Logan & Strobridge Co...net prices
National Specialty Mfg. Co....30%
The Swift, Lane Bros....33⅓%
Waddell's New Box Mills, Ideal Brand, New List....60@60&10%

Compasses, Dividers, &c.—

Athol Calipers and Dividers....40%
Bemis & Call Co.'s:
Compasses....50&5%
Dividers....65%
Compasses, Calipers, Dividers. 70@70&10%
Wm. Johnson's:
Extension Dividers....40%
Inside, Outside and Double....70%
Registering....50%
Wing Calipers....70%
Wing Dividers....75%
Stevens's "Ideal"....35&10%
Stevens's "Leader"....55%
Starrett's Fay's Patent Spring Calipers and Div...35&10%
Wright's Graduating....15%

Coopers' Tools—

Bradley's....20%
Barton's....30@30&5%
Beatty's....33⅓%
L. & L. J. White....30@30&5%
Sandusky Tool Co....25&10@30&10%
Shaves, Cincinnati Tool Co. 15@15&10%

Corkscrews—

Detroit Cork-Screw Co....33⅓%
Howe Bros. & Hulbert....40%
Humason & Beckley Mfg Co. 40& 10@50%
Samson....₱ doz $10.00
Williamson's....40%

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Corn Hooks -

Kretsinger Cut-Easy, ₱ doz. $3.00 net

Corn Knives and Cutters—

Bradley's 10%
Wadsworth's ..... 35@35&10%

Counter Sinks—

Adjustable 30%
Countersink Bits ..... 40&10%
Shepardson's Diamond ..... 40@45%
Smith's 25%
Wheeler's Patent 40%

Crayons—

Sargent's List 20%
Dixon's
Eclipse ..... ₱ gro. $3.75
Emerald ..... ₱ gro. 5.00
Oriole ..... ₱ gro. 5.00
Rainbow ..... ₱ gro. 2.81
Solid ..... ₱ gro. 7.50

Curry Combs—

Fitch's, List Nov. 20, '96 ..... 35&10%
Perfect ..... 35&10%
Rubber, ₱ doz. $7.50 ..... 20@30&10%
Southington Cutlery Co.'s List, Nov. '96 ..... 35&10%

Cycle Hangers—

Lane's ..... 33⅓&5%

Diggers—

See Post Hole, etc.

Dog Collars—

Chapman Mfg. Co.'s New List:
Chain (full assortment) 40%
Leather (full assortment) ... 50&10%
Keystone Mfg. Co.:
Low List 50%
Leather Muzzles ..... 50&10%
Medford Fancy Goods Co. list.. 40& 10@50%
Union Hardware Co. New List. 50&50&10%

Door Checks—

Bardsley's 20%
Eclipse ..... 60@60&10%
Unity F. G. 50%

Door Openers, Electric—

Electric Door Opener, complete, $9 50&10%
Thaxter Electric Lock, list $35.00

Door Springs—

Champion (Coil) ... 50&10@50&10&10%
Foster's (Coil) 30%
Gem (Coil), list Oct. '95 ..... 25%
Norton ..... 40@50%
Rubber, complete, ₱ doz. $5.50, 66⅔@70%
Star (Coil), list Oct. '95 ..... 33⅓&10%
Torrey's Rod, 39 in, ₱ doz $1.20@1.25
Victor, Coil ..... 60&10@60&10&5%
Warner's ..... 55@55&10%

Drawer Pulls—

Sargent's List 60%

Drawing Knives—

Adjustable Handle ..... 40@40&10%
Bradley's 35%
Douglass ..... 75@75&10%
Jennings & Griffin ..... 75&5%
Merrill & Wilder ..... 60&10%
Mix, New Haven, P. S. & W., Witherby ..... 75& 10& 5%
Watrous ..... 30@30&10%
L. & I. J. White ..... 2½&5@35%
Wilkinson's Folding ..... 35@35&5%

Drills and Drill Stocks—

Automatic Boring Tools .. $1.75@1.85
Blacksmiths' ..... each $1.75
Breast, Bartholomew's No. 12, ₱ doz $16.00
Breast, Millers Falls, each $3.00 15&10%
Breast, P. S. & W. ..... 40&10%
Breast, Wilson's ..... 30&5%
Graves Drill Stocks 40%
Ratchet, Billings' Dble. Acting. 33⅓%
Ratchet, Ingersoll's 25%
Ratchet, Merrill's ..... 20@30&5%
Ratchet, Moore's Triple Act. 25@30%
Ratchet, Parker's 40%
Ratchet, Whitney's ..... 30&10%
Ratchet, Weston's ..... 30@35%
Stearns' Bench ..... 50@50&10%
Whitney's Hand Drill, No. 1, $10.00: Adjustable No. 10, $12.00 ..... 33⅓%
Wilson's Drill Stocks 10%

TWIST DRILLS—

See Augers and Bits.

Drug Mills—

National Specialty Mfg. Co. 30%

Egg Beaters—

Dover (Standard Co.) No. 10 ₱ gro. $9.50
Dover Extra Heavy (Standard Co.) No. 15 ..... ₱ gro. $21.00
Paine, Diehl & Co.'s Keystone Spiral ..... 33⅓% ₱ gro. $4.25@$4.50

Electrical Supplies—

J. Jones & Son:
Alarm Clocks, Electric ..... $2.00 each, less 50%
Annunciators, $1.50 ₱ drop, less 50%
Batteries, Leclanche ... 60c. each, less 50%
Batteries, Carbon .. 60c. ea., less 50%
Batteries, Medical, $3.50 ea., less 50%
Batteries, Dry ..... 50c. ea., less 50%
Bells, Electric, 2½ 50c. ea., less 50%
Call Bell Outfit, Electric ... $2.00 each, less 50%
Desk Pushes Electric .. 30c. each, less 50%
Door Springs, Electric ... 24c. ea., less 50%
Early Risers' Set, Electric .. $3.50 each, less 50%
Floor Pushes, Electric ... 6 c. ea., less 50%
Gas Burners, Electric .... 5 c. ea., less 5%
Gravity Batteries, $1.00 ea., less 50%
Hydrometers ... 75c. each, less 50%
Incandescent Lamps .. 40c. each, less 50%
Induction Coils, Telephone 6 c. each less 50%
Lead Covered Wire No. 18, No. 16, No. 14
Magnetos, Telephone, $7.00 each, less 50%
Push Buttons, Bronze, 20c. each, less 50%
Push Buttons, Wood .. 10c. each, less 50%
Sal Ammoniac ... 18c. ₱ lb, less 50%
Switches, 1 pt .... 20c. each, less 50%
Switches, 2 pt .... 24c. each, less 50%
Switches, 3 pt .... 28c. each, less 50%
Spark Coils, 8 pt .. $2.00 ea., less 50%
Spark Coils, 10 pt $2.40 ea , less 50%
Spark Coils, 12 pt ..... $2.80 each, less 50%
Tape, Insulating, 20c. ₱ lb. less 50%
Tube, Speaking, $21.00 ₱ 1,000 ft. less 50%
Whistles, Speaking Tube, N. P., 2.00 ₱ doz., less 50%
Whistles, Speaking Tube, Porcelain ..... 75c ₱ doz., less 50%
Wire Winders, $10.00 each, less 50%
Window Springs, Electric ... 24c. each, less 50%
Yale Lock Switch, Electric, $3.50 each, less 50%
Zincs, Leclanche ... 04c. ea., less 50%

Emery—

	No. 4 to 46 gr.	No. 54 to 150 gr.	Flour, FF.
Kegs, ₱ lb ..	4½c	5c	8c
½ kegs, ₱ lb.	4½c	5½c	8½c
¼ kegs, ₱ lb.	5c	5½c	8½c
10 lb cans, 10 in case	6c	6½c	8½c
10 lb cans, less than 10 ..	10c	10c	8c

Enameline—

No. 4, ₱ gro. $4.50
No. 6, ₱ gro. $7.20

Escutcheons—

Brass Thread ..... 60@60&10%
Wood 35%

Escutcheon Pins—

Brass ..... 70@70&10%
Iron, list January, 1890 ..... 60@60&5%

Farriers Knives—

"Challenge" ..... ₱ doz. $3.00
Popes ..... ₱ doz. $3.00
Wilkinson's ..... ₱ doz. $3.00

Faucets—

Brass Globe Cocks ..... 60&10%
Brass Racking ..... 60&10%
Burnside's Red Cedar 50%
Burnside's Red Cedar, bbl. lots 50&10%
Bohren's Pat. Rubber Ball 25%
Fenn's Cork Stops 60%
Frary's Pat. Petroleum .. 60&10@70%
John Sommer's "Peerless," Tin Key 40%
John Sommer's "Boss," Tin Key. 50%
John Sommer's "Victor," Metal Key ..... 50&10%
John Sommer's "Duplex," Metal Key 60%
John Sommer's "Buckeye," Metal Key 40%
John Sommer's "Rochester," Metal Key 50%
John Sommer's "Rival," Metal Key 50%
John Sommer's "Crescent," Metal Key ..... 50&10%
John Sommer's "Diamond," Lock 40%
John Sommer's "Eclipse," Lock .. 40&10%
John Sommer's "Union," Lock 50%
John Sommer's "I. X. L.," Cork Lined 50%
John Sommer's "Reliable," Cork Lined ..... 50&10%
John Sommer's "Common," Cork Lined 70%
John Sommer's "O. K.," Cork Lined 50%
John Sommer's "Chicago," Cork Lined 60%
John Sommer's "Perfection," Cedar 40%
John Sommer's "No Brand" Cedar ..... 50&10%
Star ..... 60@60&5%

SELF MEASURING—

Enterprise ₱ doz. $36.00 ..... 40%
Lane's ₱ doz. $36.00 ..... 40%
National Specialty Mfg. Co 33⅓%

Files—

DOMESTIC—

American ..... 70&10@75%
Arcade 70%
Derby ..... 75&10%
Disston's 75%
Economy ..... 75&10%
Great Western ..... 70&10@75%
Kearney & Foot ..... 70&10@75%
Nicholson 70%
Nicholson's X. F. Files ... 80@20&10%
Royal 75%
Second Quality Files ..... 80@80&10%
Tiger 75%
Troy File Works:
Files ..... 70&10%
Rasps 70%
Victor ..... 75&10%

IMPORTED—

Stubs ..... Stubs' list, 35@30%

Filters—

Seed's Water Filters:
A 1, No. 2, No. 3, No. 4, $4.00 $2.50 $1.50 $1.00 ₱ dos.

Fish Hooks—

Amer. Fish Hook Co. list. 60@60&10%
Kirby & Limerick, low list (50c base) 10%

Fish Scalers—

Covert's Saddlery Works:
Great American ..... 60&20%
Fitch's ..... 35&10%

Fluting Scissors—

List 45%

Forks—

Champion, Manure, 4 tines. 70&12½%
Champion, Manure, 6 tines .. 70&10%
Columbia, Hay ..... 70&12½%
Columbia, Manure, 4 tines. 70&12½%
Columbia, Manure, 6 tines .. 70&2½
Columbia, Spading ..... 75&5&2½
Iowa Farming Tool Co.:
Barley ..... 70&15%
Victor, Hay ..... 70&12½%
Victor, Manure, 4 tines ..... 70&12½%
Victor, Manure, 6 tines ..... 70&20%

Freezers, Ice Cream—

Blizzard ..... net
Gem ..... net
Granite State ..... net
Improved Arctic ..... net
Keystone, P. D. & Co 20%
Ohio ..... 60&10%
Packer's:
Confectioner's Machine ..... net
Double Action Standard ..... net
Good Luck ..... net
Standard ..... net
Shepard's Lightning ..... net
White Mountain ..... net

Fruit, Wine and Jelly Presses.

Enterprise 35%

Fry Pans—

Acme Fry Pans ..... 70&10%
Polished, regular goods ... 75@75&10%
Standard List ..... 75&10@80%

No	0	1	2	3	4
₱ dos	$3.00	$3.75	$4.25	$4.75	$5.25
No		5	6	7	8
₱ dos		$6.00	$7.00	$8.00	$9.00

Gas Burners, Self-Lighting—

Gem ..... ₱ doz. $2.50
In lots of 3 doz ..... ₱ doz. $2.25

Gauges—

Bemis & Call's Steel 50%
Boss, Screw Pitch 33⅓%
Clapboard ..... 25&10%
Marking, Mortise, &c. 60&10@60& 10&10%
Stanley's ..... 60&10%
Stanley's Chisel ..... 25&10%
Starrett's Surface, Center and Scratch ..... 35&10%
Copeland Champion Bit ₱ dos $2.00 net
Stubs' Wire and Drill 20%
Wire, Morse's 25%
Wire, P. S & W., low list .... 10&10%
Wire, Wheeler, Madden & Co 10%

Gimlets—

"Bee," ₱ gr $12 ..... 35@35&10%
Bell Hangers 50%
"Diamond" Gimlets ₱ gr. $4.00@4.25
Double Cut, Douglass' .... 40&10@50%
Double Cut, Ives' .. 60&10@60&10&5%
"Eureka" Gimlets. 60&10@60&10&5%
Metal head 55%
Nail Gimlets:
Assorted 1, 2 and 3 ..... ₱ gr. $1.50
Assorted 2 and 3 ..... ₱ gr. $1.70
Pod 50%
Star 50%
Spike Gimlets:
Assorted 1, 2 and 3 ..... ₱ gr. $3.00
Assorted 2 and 3 ..... ₱ gr. $2.25
Wood head ..... 50&10%

Glue—

Dodd's Liquid Glue ..... 25&25&10%
Le Pages Liquid ..... 25&25&10%

Glue Pots—

Family, Howe's "Eureka" 50%
Family, L. F. C.'s "Handy" 60%
Enameled ..... 45@50%
Tinned ..... 45@50%

Graters—

Champion Nutmeg ..... ₱ doz. $9 00
Edgar's Nutmeg .. ₱ gro. $10.50 .. 10%
Enterprise 30%
Rotary Nutmeg ..... ₱ gro. $9.00

Grindstone Fixtures—

Howard Iron Co 30%
P., S. & W. Co ..... 50&10&10%
Russell & Erwin ..... 70&10%
Sargent's Patent .. 70&10@70&10&10%

Gunpowder—

See Ammunition.

Hafts—

Britton's ..... ₱ doz. $6.50

Halters—

Covert Mfg. Co ..... 45&2%
Covert's Saddlery Works:
'96 List ..... 60&20%
Upson & Wooding 40%
Wright's Animal Tether 30%

Hammers—

HANDLED HAMMERS—

Atha Tool Co ..... 50&10@60%
Henry Cheney Hammer Co.
Handled Claw ..... 40&10%
Machinists' ..... 50&10%
C. Hammond & Son, List .. 40&10@50%
Humason & Beckley ..... 50@50&10%
Dunlap's Patent 25%
Magnetic Tack, Nos. 1, 2, 3, $1.25, 1.50&1.75 ..... 40&10%
Maydole's ..... 33⅓&5@40&5&5%
Peck, Stow & Wilcox ..... 40@40&5%
Fayette R. Plumb:
Artisan's Choice, A. E. Nail, 40&7½%
Engineers & B. S. Hand .... 50&15%
Y. & P., A. E. Nail ..... 40&10½%
Other Brands ..... 50&10@60%
Sargent's New List ..... 45@50%
Verree ..... 50&10@60%
Warner & Nobles New List .. 35&10%

HEAVY HAMMERS AND SLEDGES—

Under 3 lb ... ₱ lb 40c
3 to 5 lb ..... ₱ lb 35c } 75@80%
Over 5 lb ..... ₱ lb 30c
Wilkinson's Smiths .... 9½c@10c ₱ lb

Hammock Ropes—

Covert Mfg. Co 45%
Covert's Saddlery Works .... 60&20%

Handles—

IRON, WROUGHT OR CAST—

Chest Handles, Sargent's .. 50&10@ 50&10&10%
Door or Thumb:

Nos	0	1	2	3	4
Per dos	$ .90	1.00	1.08	1.35	1.50

50&10@60%
Drawer Handles 60%
Ring Handles 70%
Roggin's Latches ..... 50&10@60%
Shelf Box Handles 65%
Trunk Handles 60%
Tub Handles ..... 60&10%

STORE DOOR HANDLES.—

Bronzed, with Cylinder Lock 50%
Bronzed ..... 60&10@66⅔%
Japanned, with Nuts $1.62
Japanned, with Plate $1.10
Japanned, without Plate 88c

DOOR PULL—

Bar ..... 60@60&10%
Barn Door ..... 50&10%
Chest and Lifting ..... 60@60&10%
Drawer Pulls ..... 50&10@60%
Plain B. M ..... 60@60&10%
Push Plates, Sargent's List .. 60@60 &10%
Sash Pull Plates ..... 70&10%
Sash Pulls ..... 60&10&10%
Window Pulls 66⅔%

WOOD—

Auger, assorted ..... ₱ gr. $2.25@2.50
Auger, large ..... ₱ gr. $3.00@3.25
Auger, Douglass', Pat. ₱ set, No. 1, $1.00; No. 2, $1.40
Auger Ives', Pat. No. 1, 60&10% No. 2 to 33¼ 40%
Auger, Swan's, Pat. ₱ set, No. 3, $1.00; No. 4, $1.25 ..... 35&10%
Brad Awl ..... ₱ gr. $1.75@2.00
Chisel Worcester Leather Cap'd 1.50
File, assorted ..... ₱ gr. $1.35@1.40
Firmer Chisel, Apple ass'd ₱ gr. $2.25@2.50
Firmer Chisel, Apple large ₱ gr. $2.75@3.00

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Firmer Chisel, Hickory ass'd ₩ gr. $2.00@2.25
Firmer Chisel, Hickory, large, ₩ gr. $2.50@2.75
Firmer Chisel, Socket ass'd ₩ gr. $2.00@2.25
Hammer, Hatchet, Axe, Sledge, etc.....50&25%
Hoe, Rake and Fork 60&10@60&10&5%
Saw and Plane.....40&10@50%
Shovel and Spade, Wood D Hdle. 60@60&10%

ROSS-CUT SAW HANDLES—
Atkins.....40%
Boynton' Loop Saw Handles, 50c. 60%
Champion.....45@45&10%
Sensible.....₩ doz. pr. $5....60%

Hangers—
Barn Door, old pattern....60&10@60&10&10%
Barn Door, New England. 70@70&10%
Barry, $6.00.....50&10%
Best Anti-Friction. 60&10@60&10&5%
Challenge, Barn Door.....50%
Cronk's Roller Bearing, No. 4, $18.00; No. 5, $26.00.....70&10%
Cronk's Steel cov'd Loose Axle. 60&20%
Davis Parlor Door.....50@50&5%
Duplex (Wood Track).....60&10&5%
Kidder's.....50@50&10%
Lanes Barn Door:
Covered.....60&10%
No. 50.....6 &5%
New Model.....4 &10%
Parlor, Standard.....40&10%
Standard.....60&10%
McKinney's "None Better," No. 2, $18.00; No. 1 Special, $15.00, ₩ dozen pairs.....60&10%
Nansen Roll Bearing Hanger. 60&10%
Reed's Steel Arm.....60%
Rider & Wooster, No. 1, 62½c.; No. 2, 75c.....40%
Richards' Single Track, Steel. 50&10%
Star.....50&10&10%
Stearns' Challenge.....50@50&5%
Sterling's Impr'd. 60&10@60&10&10%
Stowell Barn Door:
Badger.....60&10%
Climax.....55&5%
Interstate.....60&15%
Magic.....5 &10%
Matchless Covered.....60&10%
Wild West.....5 &5%
Zenith.....5 &1%
Baggage Car Door.....33⅓%
Elevator.....40%
Railroad.....5 &5%
Terry Ideal.....60&10%
Terry's Modern.....60%
Terry's Modern, Covered.....60%
Terry's Safety.....60&5%
Terry's Solid.....60&10&5%
Terry's Wrought.....60&10&10%
The Boss.....60&10@60&10&5%
Universal Anti-Friction.....40%
Victor, No. 1, $15.00; No. 2, $20.00; No. 3 $25.00; No. 4, $35.00. 60&10&2½%
Warner's Pat.....20&10&10%

Harness Snaps—
See Snaps.

Hasps and Staples
McKinney's "Perfect," $1.10 ₩ doz.....40&10%
Wrought.....65&10@55&10&5%

Hatchets—
See Axes.

Hay Racks—
Baxter Wrought Iron, No. 1, $1.00, net; No. 2, $1.50, net.

Hay and Straw Knives—
Auburn Hay, Com. and Spear Point.....50%
Auburn Straw.....40%
Lightning, from jobbers. $6.00@$6.25
Wadsworth's.....40&5@40&5&7½%

Hedge Shears—
Wm. Wilkinson & Sons.....50%

Hinges—

WROUGHT IRON HINGES—
Corrugated Strap and T..75@75&5%
Rolled Blind Hinges Nos. 23 and 24 50&10@50&10&5%
Rolled Plate..... } 70&10@70&10&5%
Rolled Raised.... }
Plate Hinges "Providence" 6 to 12 in. ₩ lb. 5c. 14 to 36 in. ₩ lb. 4c.
Screw Hook and Strap. { 6 to 12 in., ₩ lb. 2½c; 14 to 20 in., ₩ lb. 2½c; 22 to 36 in., ₩ lb. 3 c
Strap and T.....75@75&5%

SPRING HINGES—
Acme.....30&5%
American.....30%
Bommer's.....40%
Bardsley's Patent Checking.....15%
Chicago.....30%
Crown.....30%
Champion.....60%
Devore's No. 1.....₩ gr. $12.00
Geer's Spring and Blank Butts...40%
Gem.....30%
Kell's American.....30%
Matchless, Double Acting.....25%
New Idea, No. 1, ₩ gro.....$7.50
New Idea, No. 2, ₩ gro.....$18.00
Oxford.....30%
Rex.....₩ gr. $13.00
Royal Japanned.....66⅔%
Rubber.....66⅔%
Sargent's List 1894:
Bronze Metal.....75&10%
Japanned Surface, Single..70&10%
Japanned Surface, Double. 60&10%
Mortise.....55%
Model.....70@70&10&10%
Tuscan Surface, Single.....70%
Tuscan Surface, Double.....70%
Vigilant.....50&10@50&10&10%
Union Spring Hinge Co.'s list, March, 1894.....30%
Union Mfg. Co.....25%
Wiles' No. 1, ₩ gr., $16.00; No. 2, $18.00

GATE HINGES—
Automatic.....₩ doz $12.50, 50%
Common Sense..₩ doz pair $4.50, 50%
Clark's Nos. 1, 2, 3.....70&10&5%
Long's Self Closing.....50%
N. E...₩ doz $7.80.....60@60&10%
N. E. Reversible.....₩ doz $5.60 60@60&10%
N. Y. State..₩ doz $4.90..60@60&10%
Reed's Latch and Hinges...₩ doz $12.00, 50%
Seymour's.....45&10%
Shepard's Nos. 1, 2, 3. 60&10@60&10 &5%
Western, ₩ doz $4.20.....60@60&10%

BLIND HINGES—
Clark's:
Lull & Porter, Nos. 0, 1, 1½, 2, 2½, 3.....60&10%
Mortise Gravity.....50%
Nos. 1, 2, 3.....60&10%
Nos. 40 and 50.....6%
Huffer.....65%
Parker.....75@75&10%
Sargent's Nos. 1, 2, 5, 11, 12, 75@75&10%
Shepard's or Wrightsville Hdwe. Co.:
Acme, Lull & Porter.....60&10%
Buffalo Gravity Locking, Nos. 1, 2 and 3.....60&10&2½%
Champion Gravity Locking, No. 75.....60&10&10%
1868, Old Pat'n, Nos. 1, 2 and 3, 60&10%
Tip Pattern, Nos. 1, 2 and 3, 60 &10&5%
Double Locking, Nos. 20 and 25. 75%
Empire, Nos. 10 and 101.....80%
Niagara Gravity Locking, Nos 1, 2 and 3.....60 &10%
Noiseless, Nos 50, 60, 65 and 55. 80%
O. S. Lull & Porter.....80&10&5%
Pioneer, Nos. 060, 45 and 5½..75&5%
Steam oat Gravity Locking, No. 10.....60&10&5%
Stanger's Noiseless.....75%
Mortise Gravity.....50%
Stanley's Steel Gravity Blind Hinges, ₩ doz. sets $1.30.....40&10%

Hitching Cords—
Covert Mfg. Co.....45%

Hoes—

HANDLED—
Crescent Cultivator, 6 in. ₩ doz. $3.50 net
Crescent Cultivator, 7 in. ₩ doz. $3.75 net
Crescent Double-Bit & doz. $4.00 net
Cruciole Cut-Easy..₩ doz. $4.50 net
Cotton.....60&10%
Dunlap's Boys', Ladies', Toy.....30%
Garden.....30%
Ladies' and Boys'.....30&5%
Mortar.....75&25%
Iowa Crucible Socket.....75&20%
Manic.....₩ doz $4.00
Mattock Hoe.....₩ doz. $3.75 net
Planter's.....30&15%
Texas Cut-Easy.....₩ doz. $4.25 net
Warren Hoe.....60&10%
Weeding.....75&10%

EYE—
American Axe & Tool Co.....70%
Grub.....70&10@75&5%
Lane's:
Crescent Planters Pat.....45&5%
Razor Blade, Scovil Pat.....30&5%
Sandusky Tool Co., S. & O. Pat. 60@60&10%
D. & H. Scovil.....20@30%

Hog Rings and Ringers—
Hill's:
Rings.....₩ gr. boxes..$3.00@$3.25
Ringers.....₩ doz. 5c@55c
Kohlers, Horse Nail, Ringers. ₩ doz. $9.00
Perfect Rings.....₩ gro. $7.00@$7.50
Perfect Ringers.....₩ doz. 80c

Hollow Ware—

IRON—
Lalance & Grosjean Mfg. Co.:
Agate-Nickel-Ware.....40&10%
Peerless Enameled-Ware...70&10%
Crystal Steel-Ware.....50&10%
Blue and White-Ware.....10&10%
White-Ware.....25&10%

STOVE HOLLOW-WARE:—
Ground.....60&10&10@70%
Unground.....70&5@75%

WHITE ENAMELED-WARE:—
Boilers and Saucepans....62½@65%
Maslin Kettles,....75&5@75&10&5%
Tinned Boilers and Saucepans.. 60&5@60&10%

SILVER-PLATED—
4 mo. or 5% cash in 30 days.
Hartford Silver-Plate Co.....40&5%
Holmes & Edwards Silver Co. 40&15&5%
Meriden Britannia Co.....40&5%
Reed & Barton.....40&5%
Rogers & Brother.....40&5%
Simpson, Hall, Miller & Co.....40&5%
William Rogers Mfg. Co.....40&10%

Hooks—

BUSH—
Jennings & Griffin's.....40&10%
Light ₩ doz. $5.00; Medium ₩ doz. $5.50; Heavy $6.00

CAST IRON—
Bird Cage, Sargent's list...60&10&10%
Bird Cage, Reading.....60@60&10%
Bird Cage, Williamson.....50%
Ceiling, Sargent's list.....50&10%
Chandelier.....70%
Clothes Line, Sargent's list...5 &10%
Coat and Hat, Sargent's list..50&10%
Coat and Hat, Reading.....60&10%
Coat and Hat, Stowell's.....70%
Harness, Sargent's list....50@50&10%
Lamp.....55%
Picture.....75%
Screw Hat.....70%
Wardrobe.....55%

WROUGHT IRON—
Cotton.....₩ doz $1.25
Cotton Pat. (N. Y. Mallet & Handle Works.....30%
Hammock Hooks, E. C. Stearns, ₩ doz.....60c
Picture, T. & S. Mfg. Co.....75%
Tassel, T. & S. Mfg. Co.....50&10%
Wrought Staples, Hooks, &c. See Wrought Goods.

MEAT—
Enterprise.....33⅓%
Wm. Johnson's:
8 in.....₩ doz. $2.20 net
10 in.....₩ doz. $2.70 net

WIRE—
Atlas Coat and Hat.....50&10%
Belt.....30@30&10%
Handy Coat and Hat.....70%
Steady Ceiling.....70%
Wire Coat and Hat, Acme...60&10%
Wire Coat and Hat, Gem.....70%
Wire Coat and Hat, Standard....45%

MISCELLANEOUS—
Carpenter's Amc. Grass Hooks, ₩ doz. $4.00
Covert's Saddlery Works:
Self-Locking Gate and Door Hooks.....60&20%
Dunlap's Merchandise.....25%
Grass, No. 2, $1.65; 3, $1.80; 4, $2.00
Hooks and Eyes—Brass.....70&10%
Hooks and Eyes—Mal. Iron.....75%
Wm. Johnson's Cotton, Box and Hay.....60%
Stowell's:
Clothes Line.....70%
Harness.....70%
Hotel & School House.....70%
Whiffletree.....₩ D 4½c

Horse Nails—

Nos.	6	7	8	9	10
A. C.	25c	25c	25c	21c	21c.

40&10%
American, all sizes, 9½@10c.....net
Ausable.....23c 23c 23c 24c 23c. 40&10&5%
Anchor.....25c 21c 20c 19c 18c.....40%
C. B. K.....25c 23c 23c 21c. 21c 40%
Capewell...19c 18c 17c 16c 16c..10&5%
Champlain..25c 25c 25c 24c 23c 40&5&2%
Clinton Fin. 19c 17c 18c 15c 14c. 30&10&5%
Empire Bronsed.....10c
Essex.....23c 23c 23c 24c 23c. 40&10@50%
Lyra....9½c 9½c 9½c 9½c 9½c., net
Maud S.....25c 23c 23c 21c. 21c 50&10&5%
Northw't'n. 25c 25c 23c 21c 20c. 25@25&5%
Putnam.....23c 21c 20c 19c 18c....25%
Snowden, 9½c 9½c 9½c 9½c 9½c., net
Vulcan.....23c 21c 20c 19c 18c.....25%
Western, 5 to 10d.....9c

Horse Shoes—
See Shoes.

Horse Ties—
Covert Mfg. Co.....45%

Hose, Rubber—
Boston Belting Co.:
"Boston".....50&10&5%
"Imperial".....50&5%
Competition.....75@75&10%
Extra.....60&10@60&10&10%
N. J. Car Spring & Rubber Co.:
Extra Para.....40&10%
Reliable.....50&10%
Staple.....60&10%
Standard.....70&10@70&10&5%

Ice Awls, Chippers, &c.—
Copeland Ice Pick....₩ gr $9.00 net
Crown.....net
Dunlap's:
No. 1.....$3.50 per doz 20%
No. 20.....$12.00 per doz 20%
Gem Ice Shave.....net
Farmer's:
Ice Box Chisel....₩ doz. $12.00 } 25&10&5%
Ice Crusher, No 3, ₩ doz. $3.00 }
Ice Crusher, No. 2, ₩ doz. $6.00 }
Ice Crusher, No. 1, ₩ doz. $2.00 }
Ice Tools.....₩ doz. $4.00 }
Sargent's Ice Awls.....55%
Star.....net

Ice Shredders—
Enterprise, No. 33, ₩ doz. $6.00..25%
No. 34.....₩ doz. $15.00..25%

Jack Screws—
See Screws.

Kettles—
Spun Brass, Plain.....15@20%
Spun Brass, plated inside with White Metal.....10@15%

Knives—
Ames':
Bread Knives. ₩ doz. $1.50...20@25%
Butcher Knives.....25@25&10%
Shoe Knives.....25@30%
Dunlap Kitchen and Bread Knives 25%
Foster Bros.' Butcher, &c.....40%
Goodell's:
Bread Knives Ass'n list.....net
Butcher.....net
Shoe Knives.....40%
Hay and Straw, see Hay Knives.
Nichols' Butcher Knives.....50%
Table and Pocket, see Cutlery.
Wilson's Butcher Knives..25@25&5%

Knobs—
Bardsley's Wood Door, Shutter and Base.....15%
Base, Rubber Tip, 2½ in. Bead, ₩ gr.....$1.25@$1.50
Carriage, Jap.....₩ gro. 80c, 60&10%
Door Knobs, Hemacite.....50&10%
Door Mineral.....₩ doz. 55@60c
Door Por. Jap'd.....₩ doz. 65@70c
Door Por. Nickel...₩ doz..$1.70@1.80
Drawer, Porcelain. 60&10@60&10&10%
Picture, Hemacite.....50&10%
Picture, Judd's.....50&10&10%
Picture, Sargent's.....70&10%
Shutter, Porcelain.....70%
Yale & Towne Wood, list Dec. '95. 40%

Lace, Leather—
John C. Hagan & Co.:
Rawhide Side Lace, No. 1 ₩ ft. 18c
Tanned Side Lace.....₩ ft. 18c
Cut Lacings, ¼ in., ₩ 100 ft...$1.00
Cut Lacings, 5/16 in., ₩ 100 ft. $1.25
Cut Lacings, ⅜ in., ₩ 100 ft...$1.50
Cut Lacings, ½ in., ₩ 100 ft...$2.00
Cut Lacings, ⅝ in., ₩ 100 ft...$2.75
Cut Lacings ¾ in., ₩ 100 ft...$3.25
Discount from list, 60%

Ladles, Melting—
Monroe's Pat.....₩ doz $4.00, 40%
P. S. & W.....35&10@40%
Reading.....50&10%
Sargent's.....60@60&10%
Warner's.....30%

Lanterns—
Buhl Stamping Co:
No. 100 Buhl Tubular Headlights, ₩ doz. list.....$30.00
No. 16 Buhl side Lever, ₩ doz. list.....$7.50
No. 10 Buhl Improved Regular, ₩ doz. list.....$7.00
No. 20 Buhl Square Top Lift. No. 2, ₩ doz. list.....$11.00
No. 150 Buhl Dash Reflector. ₩ doz. list.....$10.00
No. 2 0 Buhl Dash Reflector. No. 2, ₩ doz. list.....$17.00
Discount.....40&5%

Latches—
Cronk's Sliding Door.....60%
Lane's Barn Door.....40%

Lawn Mowers—
Champion.....75&10%
Clipper Improved.....50&10&10&5%
Continental.....60&10%
Enterprise.....40%
Genuine Philadelphia Mowers:
Styles M., S., C., K., T.....70&10%
Style A., (all steel).....60&10%
Style E., Low Wheel.....60&10%
Style E., High Wheel.....70&10%
Drexel, low list.....50%
Gold Coins, low list.....50%
Great American.....70&10%
Imperial.....60&10&10%
New Departure, High Wheel, 70&10&10%
New Departure, Low Wheel. 75&10%
New Easy.....60&10@60&10&10%
New York.....60&5%
Pastime:

12 in.	14 in.	16 in.
$6.00	$6.25	$6.50 each net

Pennsylvania.....60&10%
Rapid Transit.....70&10&10%
Standard.....60&5%
Sunbeam.....60&10%

Lawn Sprinklers—
Enterprise.....25%
Gibbs' Arc.....₩ doz. $10.00
Gibbs' Hustler.....₩ doz. $5.00

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Philadelphia Lawn Mower Co.
Philadelphia Lawn Sprinkler:
No. 1, No. 2, No. 3,
₩ doz. $12.00 $15.00 $24.00..35%

Lemon Squeezers—

Berger Bros. ₩ doz. 3-in. $1.00; 10-in. $1.40.....20%
Dean's, Nos. 1, ₩ doz. $6.50; 2, $3.85 3, $1.65; Queen $3.50 net
Dunlap's Improved ₩ doz. $3.75 20%
Hotchkiss, Straight Flush ₩ doz. $9.60
Jennings' Star...₩ doz. $1.90@$2.00
Little Giant.....50@50&5%
Porc. Lined, Iron.....$3.25@$3.50
Porc. Lined, Wood....₩ doz. $6.00 30&10@40%
Wood, Common ₩ gross, No. 0, $5.00; No. 1, $6.50; No. 2, $10.00.

Letter Box Plates—

Name Door Plate.....50@50&10%
Name Plate.....70%
Number Door Plate.....60@60&10%
Sargent's.....60&10@70%

Levels—

C. E. Jennings & Co.'s:
Hexagon.....35&10%
Iron Bench, new design....35&10%

Lifters—

See Transom Lifters.

Lines—

Cotton and Linen Fish, Draper's.50%
Cotton Chalk, 50 feet.....60&10%
Cotton Trot.....33⅓%
Masons':
Colored Cotton.....40&10%
Flax.....40&10%
No. 0 to 5.....35%
Samson, Cotton, No. 4, $2; No. 4½, $2.50....10%
Silver Lake, Braided, No. 0, $6.00; No. 1, $6.50; No. 2, $7.00; No. 3, $7.50 ₩ gro.....35%
Ventilator Cord, Samson Braided, White or Drab Cot. ₩ doz. $7.50, 20%
Wire Clothes, 100 feet, No. 18, $3.25; No. 19, $3.00; No. 20, $1.75

Locks—

DOOR LOCKS, LATCHES, &C.—
Barnes Mfg Co.....40@40&10%
Branford Lock Co.....net prices
Brooklyn Latches.....50&10%
Champion Night Latches.....40%
Dietz Flat Key.....30%
Mallory, Wheeler & Co...60&10@70%
Norwalk Lock Co.....60&10%
Plate.....33⅓%
R. & E. Mfg. Co.....60&10@70%
Reading Hdw. Co.....60@60&10%
Romer's Night Latches.....20&5%
Sargent & Co.....60&10@60&10&10%
Slaymaker, Barry Co.'s:
Corrugated Key Latch.....35&5%
All other Night Latches.....40%
Yale.....net prices

CABINET—
Barnes Mfg. Co.....40@40&10%
Dietz:
Nos. 23 to 39.....40%
Nos. 41 to 78.....45%
Nos. 87 to 96.....30%
Eagle Lock Co.....45&5%
Charles Parker Co.....45&5%
Romer's.....35%
Stoddard Lock Co.....30@33⅓%
Yale.....45&5%

PADLOCKS—
Acme Bicycle and Satchel per doz. $9.00.....40%
Ames Sword Co.....40%
Barnes Mfg. Co.....50@50&10%
Champion.....40%
A. E. Dietz.....40%
Eagle.....40%
Eureka, Eagle Lock Co.....40&5%
Gem, Corbin's.....40&5%
Romer's Nos. 0 to 11.....40&5%
Scandinavian.....30&40@30&40&10%
Smith & Egge Bicycle.....50%
Wrought Iron.....75@80%
Yale Lock Co.....net prices

TRUNK—
Corbin's.....35%
Eagle.....35%

Mallets—

Sargent's List
Hickory.....50@35&10%
Lignumvitæ.....50@35&10%
Raw-Hide.....40&10%

Mattocks—

Regular list.....70@70&10%

Meat Cutters—

American.....30%

Nos.	1	2	3	4	B	5
Each.	$5	$7	$10	$36	$50	$60

Beef Shavers (Enterprise).....20%
Chadborn's Smoked Beef Cutter, ₩ doz $60.00
Dixon's.....₩ doz 33⅓%

Nos.	1	2	3	4
	$14	$17	$19	$30

Enterprise.....35%

Nos.	10	12	20	22	42
Each	$3	$3.50	$4	$5	$15

Hales Pattern ₩ doz.....70@70&5%

Nos.	11	12	13
	$27	$33	$45

Home No. 1..₩ doz $36.....60%
Little Giant.....50&10%

Nos.	305	310	312	320	322
	$35	$43	$44	$72	$68

Miles' Challenge ₩ doz...45@45&10%

Nos.	1	2	3
	$28	$30	$40

Perfection.....net
Woodruff's ₩ doz.....33⅓%

Nos.	100	150
	$15	$18

Meat Juice Extractors—

Enterprise.....25%

Metals, Anti-Friction—

Magnolia Metal Co.:
Magnolia, Anti-Friction, ₩ lb..25c
No Name.....₩ lb..15c
Mystic.....₩ lb..10c
f. o. b. New York or Chicago.

Molasses Gates—

Enterprise.....20%

Mop Wringers—

Matchless (Canton, O.). ₩ doz.$12.00

Motors—

COFFEE MILL—
Specialty Novelty Co.....each $5. 0

Nails—

WIRE AND CUT NAILS—
See Review of the Markets for quotations.
Wire Nails and Brads, Papered, Ass'n list, Dec 1, 1896.....87½%
Grand Crossing Tack Co. List:
Wire Brads.....85%
Wire Nails.....85%

PICTURE—
Brass Head. Combination list, 50& 10%
Brass Head, Sargent's list, 70&10@ 70&10&5%
Niles' Patent.....40%
Porcelain Head, Comb'n list..40&10%
Porcelain Head, Sargent's list, 50& 10%

FURNITURE—
Antique Bronze.....10%
China.....25%
Fire Gilt.....10%
Plain.....40%

Nail Pullers—

Black Hawk, per doz.....$9.00
Eclipse.....₩ doz. $18.00..25&10&10%
Giant, No. 1, ₩ doz $18.00; No. 1½, $16.50; No. 2, $15.00.....30&5%
Lightning.....₩ doz $18.00, 20%
National.....₩ doz. $24.00, 40%
Pelican.....₩ doz $9.00, 15&10%
Scranton No. 2.....₩ doz. $10.00
Scranton No. 3.....₩ doz. $9.00

Nail Sets—

Buck Bros.....27½%
Cannon's Diam'd Point ₩ gr. $12, 25%
Dunlap's.....20%
Humason's.....50&10%
Hunters' Cup Point Knurled.... ₩ gro. $10.00
Hunters' Cup Point, Plain.... ₩ gro. $9.00
Round, assorted.....₩ gr. $3.00@3.25
Square.....₩ gr. $4.00@$4.25

Nippers—

Acme.....50%
Smith's Cutting.....50%
Todd's Cutting.....50%

Nut Crackers—

Acme, Japanned, ₩ gross $30.00..40%
Turner & Seymour Mfg. Co.....50%

Nuts—

Cold Punched, Square, off list. $5 90
Hex, off list.....$6.80
Hot Pressed, Square, off list..$6.30
Hex, off list.....$7.20
Tapped.....50%

Oilers—

Brass and Copper.....50&10%
Cushman & Denison's:
Pocket Oilers.....₩ doz. $1.55
Star Pocket Oilers..... .75
Draper's:
Brass.....70&10%
Steel.....70&10%
Malleable. Hammers, New Style, 10@10&5%
Malleable, Hammers, Old Pattern, same list.....50&10%
"Paragon," Brass.....50&10@60%
"Paragon," Zinc.....70@70&10%
Tower & Lyon Bicycle.....25%
Wilmot & Hobbs Mfg. Co.'s Steel Anti-Rust.....75%
Zinc and Tin.....70&10@75%

Oil Stones, etc.—

OIL STONES—
Pikes Washita:
Lily White, ₩ lb.....60
Rosy Red.....60
Extra Green Paper Wrapper, ₩ lb..... .50
No. 1..... .40
No. 2..... .30
Pike's Washita Round Edge Slips: 3 to 5x1¾ to 2⅜ to ⅝ at back, ⅛ to 5-16 edge ₩ lb:
Lily White.....90
Rosy Red.....90
Extra, same sizes as above.....80
No. 1.....70
No. 2.....40
Penknife Pieces, 3 to 5 x 1 to 1¼x¼ to ⅝ ₩ lb..... .70
Discount 33⅓%.
Pike's Washita Mounted No. 1:
8x2, ₩ doz.....$12.00
7x2, " 11 00
6x2, " 10.00
5x2, " 9.00
4x1¼ " 7.00
3½x1 " 5.50
Discount 33⅓&10%.
Pike's Washita Axe Stones:
About 2x2x¾ to 1½, ₩ lb..... .24
" 2x2x1½, extra selected.. .40
Discount 33⅓%.

Packing, Steam—

RUBBER—
Boston Belting Co.:
"Boston" 60%
"Excelsior" Self-Vulcanising, per lb 70c.....40%
Boston "Phœnix" Red Sheet, per lb..... 50c.net
Extra.....60&5@60&10&5%
Standard, Fair Quality.. 70&10@75%

MISCELLANEOUS—
American Packing.....9c@10c ₩ lb
Cotton Packing.....14c@15c ₩ lb
Italian Packing.....13c@14c ₩ lb
Jute.....6c@7c ₩ lb
Russian Packing.....13c@14c ₩ lb

Padlocks—

See Locks.

Parers—

APPLE—

Advance	₩ doz $4.50
Baldwin	₩ doz 5.00
Bonanza	each 5.00
Daisy	₩ doz 2.50
Dandy	each 7.50
Eureka, 1888	each 16.00
Family Bay State	₩ doz 12.00
Favorite	₩ doz 5.00
Gold Medal	₩ doz 4.00
Ideal	₩ doz 4.00
Improved Bay State	₩ dz..$27@30.00
Little Star	₩ doz 4.00
Monarch	₩ doz 12.50
New Lightning	₩ doz 5.50
Oriole	₩ doz 4.00
Penn	₩ doz 3.00
Perfection	₩ doz 4.00
Reading, 72	₩ doz 4.00
Reading, 78	₩ doz 7.00
Rocking Table	₩ doz 5.50
Scott's Pat. Rotary,	₩ doz $15.00, 20%
Turntable	₩ doz 4.50
Victor	₩ doz 12.50
Waverly	₩ doz 3.75
White Mountain	₩ doz 4.00

POTATO—

Saratoga	₩ doz 5.50
White Mountain	₩ doz $4.50

Pencils—

Dixon's:
Carpenters'.....₩ gr. $2.25@7.75
Carpenter, Blue or Red Lead.....₩ gro. 4.00@7.50
Lead.....₩ gro. 2 15@4.33
Lumber.....₩ gro. 6.87
Mascot, Hexagon.....₩ gro. 3.75
Mascot, Round.....₩ gro. 3.10

Picks—

Railroad or Adze Eye, 5 to 6, $13.00; 6 to 7, $13.00.....70&10@75%

Planes and Plane Irons—

WOOD PLANES—
Bailey's (Stanley R. & L. Co.) 50&10%
Bench, First Quality.....55%
Bench, Second Quality....60@60&10%
Fales Bench.....25%
C. E. Jennings & Co.....50&10%
Molding.....50%

IRON PLANES—
Chaplin's Iron Planes.....50&10%
Davis's Iron Planes.....40@40&10%
Gage Tool Co.'s Self-Setting.....25%
C. E. Jennings & Co., Iron...50&10%
Meriden Mal. Iron Co.'s..40@40&10%
Sargent's.....60@60&10%
Siegley's:
Bench.....40%
Combination, each.....$4.50 net
Standard Tool Co.....50@50&5%
Stanley Rule & Level Co.:
Bailey's.....50&10%
Miscellaneous.....25&10%
Steer's Iron Planes..50&10@50&10&5

PLANE IRONS—
Auburn "Thistle"..... Ohio..... Sandusky..... } 30&10@40%
Buck Bros.....30%
Butcher's.....$5.00@$5.25 to $
Hinsdale.....25&10%
C. E. Jennings & Co.....25&10%
Stanley Rule & Level Co.....50&10%
L. & L. J. White.....30&5@35%

Pliers and Nippers—

Button's.....70@70&10%
Carew's Pat. Wire Cutters.....35%
Cronk's:
Button Pattern.....70@70&10%
Fencing Pliers, ₩ doz. $12.00...75%
Flat and Round Nose,.....33⅓%
Gas Pliers, No. 100.....40%
Stubb's Pat. Pliers.....50%
Hall's Nippers, ₩ doz., No. 2, 5 in. $12.50; No. 4, 7 in. $21.00....40&10%
Hall's Pliers.....70%
Humason & Beckley Mfg. Co.50@50 &10%
Wm. Johnson's Gas Pliers.....66⅔%
Morrill's Parallel, ₩ doz $12.00 30&5%
Smith's Side Cutting.....25%
Stubs'.....30%
Swiss Pliers.....25%
P. S. & W. Cast Steel.....50@50&5%
P. S. & W. Tinners' Cutting Nippers.....add 6% dis. 10%

Plumbs and Levels—

Cook's.....40&10&10%
Davis':
Inclinometers.....20%
Iron Levels.....35&10%
Disston's.....50%
Wm. Johnson's.....75%
Plumb Bobs.....40%
Pocket Levels.....70&10%
Stanley's.....75&10%
Stanley's Duplex.....35&10%
Wood's Extension Sight.....33⅓%

Poachers—

See Egg Poachers.

Police Goods—

J. P. Lovell's Police Goods.....25%
R. I. Tool Co., Handcuffs, $15.00 ₩ doz.....10%
R. I. Tool Co., Leg Irons, $25.00 ₩ doz.....10%
Tower & Lyon's.....25%

Polish, Metal—

Prestoline Liquid, New List.....40%
Prestoline Paste.....33⅓@40%

Polish, Stove—

Dixon's Plumbago.....₩ lb 8c
Joseph Dixon's.....₩ gro $3.75, 10%
Gem.....₩ gro $4.50, 10%
Lustro.....₩ gro $4.75
Rising Sun.....₩ gro $5.50@$5.75

Poppers, Corn—

Round or square, 1 qt., ₩ doz. $.75; ₩ gr. $8.50 } 10@
1½ qt. ₩ doz. $.85; ₩ gr. $9.00 } 15%
2 qt., ₩ doz. $1.15; ₩ gr. $12.00 }
Quincy Corn Popper, 1 qt., ₩ doz. $3.00; 2 qt., $4.00.....33⅓%

Post Hole Diggers—

Kohler's:
Little Giant, No. 12...₩ doz. $12 00
Hercules, No 25.....₩ doz. $11.00
Invincible, No. 6.....₩ doz. $10.00
Pioneer, No. 714.....₩ doz. $ 9.00
Lock Lever, No 20....₩ doz. $12.00
Universal, No. 49.....₩ doz. $ 4.00
New Champion, No. 37 ₩ doz. $ 7.00
Iron Handle, No. 38...₩ doz. $ 5.00
Ryan's.....₩ doz., $30.00, 25%

Powder—

See Ammunition

Presses—

See Fruit and Jelly Presses.

Pruning Hooks and Shears—

Cronk's Pruning Shears.....33⅓%
Cronk's Heavy Pattern, ₩ doz., $3.50 net
Disston's Combined Pruning Hook and Saw...₩ doz $18.00, 25@35&10%
Disston's Pruning Hook.....₩ doz $12.00, 25@35&10%
Dunlap's Saw and Chisel....₩ doz $3.50, 60%
Henry's Pruning Shears ₩ doz $3.50@$3.75
Kobler's Pruning Shears:
German, No. 46.....₩ doz. $3 50
American, No. 33.....₩ doz. $3.50
E. S. Lee & Co.'s Pruning Tools.40%.
P. S. & W. Co.'s Shears.....60%
Pruning Shears, Henry's Pat. ₩ doz.....$3.50@3.75
Waters Tree Pruners.....75&10%
Wheeler, M. & C. Co.'s Combination.....₩ doz $12.00, 25&10%

Pulleys—

Awning.....60@60&10%
Axle.....50&10@40&10&10%
Brass Screw.....66⅔@70%
Ceiling.....50@10&60%
Clothes Line, Japanned...60@60&10%
Common Sense.....60%
Dumb Waiter.....60@60&10%
Empire Sash Pulley.....60%

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Hay Fork, Solid Eye, $4.00; Swivel, $4.50.....50&10@50&10&5%
Hay Fork, "Anti-Friction," 5 in Solid, $5.70.....50%
Hot House.....50&10@50&10&10%
Stowell's Anti-Friction 5in. Wheel, ₩ doz $12.00.....40%
Side. Anti-Friction.....50%
Shade Rack.....45%
Upright.....50&10@50&10&10%

Pumps—

Cistern, Best grades..65&10@70&10%
Pitcher Spout, Best grades 75&10@80%
Pitcher Spout, Cheaper Goods. 80&5@80&10%
F. E. Myers & Bro.:
No. 1, Fig. 328, 3 in. Shallow Well Pump..... $13.00
No. 8, Fig. 328, 3½ in. Shallow Well Pump.....$15.00
No. 5, Fig 307, 3 in. Deep Well Pump.....$15.00
No. 6½, Fig. 307, 3½ in. Deep Well Pump.....$17.00
No. 14. Fig. 521, 3 in. Deep or Shallow Well Pump.....$15.00
No. 32, Fig. 523, 3 in Deep Well Pump.....$17.00
No. 56, Fig. 361, 3 in. Shallow Well Pump.....$14.00
No. 59, Fig. 332, 3½ in. Shallow Well Pump.....$17.00
No. 70. Fig. 333, 2½ in Deep Well Pump.....$15.00
No. 72, Fig. 333, 3 in. Deep Well Pump.....$15.00
No. 73, Fig. 333, 3½ in. Deep Well Pump.....$16.00
No. 102, Fig. 443, 3 in. Lift Pump.....$10.00
No. 103, Fig. 443, 3½ in. Lift Pump.....$12.00
No. 128, Fig. 510, 3 in. Lift Pump.....$7.00
No. 131, Fig. 510, 3½ in. Lift Pump.....$8.50
No. 225, Fig. 389, Windmill Pump.....$12.50
No. 230, Fig. 402, Windmill Pump.....$13.50
No. 235, Fig. 403, Windmill Pump.....$14.50
No. 240, Fig. 406, Regulator Pump.....$20.00
No. 260 Fig. 494, Imperial Cyclone Pump.....$18.00
No. 265, Fig. 572, Cyclone Tank Force Pump.....$17.00
No. 267, Fig. 433, Geyser Tank Force Pump.....$17.00
No. 268, Fig. 513, Low Down Tank Force Pump.....$16.00
No. 302, Fig. 477, Spray Pump complete.....$11.50
No. 320. Fig. 492, Bucket Spray Pump.....$5.50
No. 33 , Fig. 547, Knapsack Spray Pump.....$10.00
Discount 55% f. o. b. Ashland.

Punches—

Avery's Revolving.....40%
Avery's Saw-Set and Punch. See Saw Sets.
Bemis & Call Co.'s:
Cast Steel Drive.....50@5%
Check.....55%
Spring.....50&5%
Springfield Socket.....65%
Morrill's Universal.....35%
Niagara Hollow.....45%
Niagara Solid.....55%
Rand's Centering Marking Tool..25%
Rice's Hand.....15%
Saddlers' or Drive, good ₩ doz..60@65%
Spring, good quality, ₩ doz $1.70@1.80
Spring, Leach's Pat.....15
Tinners' Solid, P. S. & W. Co. ₩ doz.....$1.44, 55%
Tinners' Hollow, P. S & W. Co 80&5%

Rail—

	Per 100 feet	1 in.	1¼ in.
Barn Door, Light,	$1.40	1.65	1.80
Barn Door, "None Better" No. 1, ₩ foot			2¾c
Barn Door, "None Better" No. 2, ₩ foot			3¼c

B. D. for N. E. Hangers:

	Per 100 feet	Small.	Med.	Large
		$1.60	2.00	2.50

Carrier Steel Rail, ₩ foot.....4½c
Cronk's:
Competition.....₩ foot, 3½c
Common.....₩ foot, 2½c
Double Braced.....₩ foot, 2¾c
Lanes' O. N. T.....₩ 100 ft. $2.40
Stowell's Wrought Steel.....35%
Sliding Door, Bronzed Wr't Iron.. ₩ ft. 6½c
Sliding Door, Iron, Painted....₩ ft. 5c
Sliding Door, Wr't Brass, 1½ in. ₩ ft., 30c.....30&10@40&5%
Terry's Steel Rail, ₩ foot.....3½c
Victor Track Rail, 7c ₩ foot. 60&10&2½%

Rakes—

Cast Steel, Association goods. 75&10%
Fort Madison Red Head Lawn, $3.25
Ft. Madison Blue Head Lawn, $3.00
Gibbs':
Acme.....net ₩ doz. $4.00
Boss, Garden, 14 teeth, net ₩ doz. $2.50
Boss, Garden, 16 teeth, net ₩ doz. $2.75
Canton Lawn Rake...₩ doz. $3.50
Crown Lawn, No. 1....₩ doz. $3.50
Hustler, No. 0.....₩ doz. $3.20
Lawn Rake.....₩ doz. $4.75
Kohler's:
Lawn Queen, net ₩ doz. $3 2 @$3 40
Lawn Queen, Impr'd, net ₩ doz. $3.8 @3.50
Catch All...net ₩ doz. $3 15@$3.25
Jumbo.....net ₩ doz. $7.0 @$9.00
Paragon....net ₩ doz. $3.85@$3 00
Malleable.....75%
Oneida Lawn.....doz., $6.00
Peerless Socket and Shank..75&15%
Prize Bow-Brace.....75&15%
Queen City.....33⅓%

Razors—

Electric.....List net
J. R. Torrey Razor Co.....20%
Wostenholm and Butcher, $10.00 to $.....10%

Registers—

HOT AIR—
Ferosteel new list, 1877:
Black Japanned.....40&10%
White Japanned.....30&5.0%
Bronze-plated.....40%
Nickel plated.....40&10%
Stowell's old list:
Japanned.....80&10%
Nickel-plated.....75&10%

Rings—

See Bull and Hog Rings.

Rivets and Burrs—

Copper.....60&10&5@60&10&10%
Iron. American Screw Co.: List, Nov. 1, 1894.
Ordinary, in bulk.....75&10%
Thousand in bulk.....75&10&5%
Thousand, in papers.....75&10&5%
Coopers, in bulk.....75&10%
Block, and Carriage in papers. 75&10%
Hame.....80%
Belt with burrs, tinned or coppered.....75%

Rivet Sets—

Regular list.....70@70&10%

Rollers—

Barn Door, Sargent's list..60&10& 10@70%
Cronk's:
Acme Barn Door.....50%
Adjustable Stay..₩ doz. $1.00 net
Screw Stay.....₩ doz. 60c net

Rope—

Cotton Rope, Best, ¼ in. and larger.....₩ ℔ 13 @14c
Medium, ¼ in. and larger.....₩ ℔ 10 @12c
Common, ¼ in. and larger.....₩ ℔ 8½@10c
Jute Rope.....₩ ℔ 5½@5½c
Manila:
7-16 in. and larger.....₩ ℔ 6½c
⅜ in.....₩ ℔ 7 c
¼ and 5-16 in.....₩ ℔ 7½c
Hay Rope, Med.....₩ ℔ 6½c
Sisal, ⅜ in.....₩ ℔ 6 c
¼ and 5-16 in.....₩ ℔ 6½c
7-16 in. & larger.....₩ ℔ 5½c
Med. L'th Y'rn.....₩ ℔ 5 c
Hay Rope.....₩ ℔ 5½c

Rules—

Athol, Steel.....33⅓%
Boxwood.....80&10&10&10%
Ivory.....50&10%
Lufkin's:
Steel.....55%
Lumber.....50&10%
Miscellaneous, Stanley's.....6 &10%
Starrett's Rules and Straight Edges, Steel.....25&10%

Sad Irons—

Chinese Laundry.....₩ ℔ 4½@5c
Chinese Sad.....3¼@3½c
Colebrookdale Iron Co.:
Crown, Improved Pol, ₩ doz $6.50
Nickel.....₩ doz. $7.00
Common 4 to 10.....₩ ℔ 2½@2¼c

COLD HANDLED—
Enterprise Mfg. Co. of Pa.:
No. E 50, nickel plated, size 1, 2 or 3, with "best" handles. ₩ doz.....$6.50
No. E 50, nickel plated, size 1, 2 or 3 without handles, ₩ doz.$4 00
No. E 55, plain polished, size 1, 2 or 3, with "best" handles. ₩ doz.....$6.00
No E 55 plain polished, size 1, 2 or 3 without handles, ₩ doz.$3.50
No E 60, nickel-plated, size 1, 2 or 3 with "best" handles, ₩ doz.....$7.25
No. E 60, nickel-plated, size 1, 2 or 3 without handles, ₩ doz.$4.75
No. E 60, nickel-plated, size 4, with "best" handles, ₩ doz $9.30
No. E 60, nickel-plated, size 4, without handles, ₩ doz.....$6 80
No. E 65, plain polished, size 1, 2 or 3, with "best" handles, ₩ doz.....$6.75
No. E 65, plain polished, size 1, 2 or 3 without handles, ₩ doz.$4.25
No. E 65, plain polished, size 4, with "best" handles.....$8.30
No. E 65, plain polished, size 4, without handles $5.80
The "Best" Handles, with Forged Iron Stretchers. ₩ doz.....$2.50
Self-heating.....₩ doz $10.00, 20%
Self-heating, Tailors' ₩ doz $22.50, 25%
Sensible Nickel.....₩ doz. $7.00
Sensible Pol.....₩ doz $6.50
Sensible, Tailors'.....₩ ℔ 30@3¼c

Safety Lifts—

Burr Mfg. Co., Steel.....50&60%

Sand and Emery Paper and Cloth—

Baeder, Adamson & Co.'s:
Emery Cloth.....50&10@60%
Garnet Paper.....30@50&5%
Sand and Emery Paper.50&10@60%

Sash Chain—

Giant.....40%
Monarch.....50%
Red Metal.....40&10&10%
Steel.....40&10&10%

Sash Cord—

Cable Laid Italian Sash.....₩ ℔ 16c
Cable Laid Russia....₩ ℔ 13½c@14c
Common.....₩ ℔ 8½c@9c
Common Russia Sash..₩ ℔ 12½c@13c
India Hemp Sash.....₩ ℔ 9½c@10c
Jute, good quality.....₩ ℔ 11c
Samson:
"Mass." White, Cotton.....34c
"Samson" White, Cotton.....₩ ℔ 30c
"Samson" Braided Drab, Cotton.....₩ ℔ 35c
"Samson" Braided Italian Hemp.....₩ ℔ 33c
"Samson" Braided Linen, ₩ ℔ 55c
Silver Lake:
A Quality, Drab..₩ ℔ 55c. 35@40%
A Quality, White, ₩ ℔ 50c. 35@40%
B Quality, Drab, ₩ ℔ 35c..... 15@15&7½%
B Quality, White ₩ ℔ 30c..... 15@15&7½%
White Cotton Braided, ₩ ℔.31c@33c

Sash Fasteners, Holders, &c.—

Sash Lifts.....60&10&10%
Sash Lifts Flush.....75%
Sash Lifts With Lock.....60&10&10%
Sash Rollers.....70%
Shutter Bars.....60&10@70%
Shutter Sheaves.....60%
Window Screen Sash Lifts.....66⅔%

Sash Locks—

Champion Safety.....70&10&5%
Corbin's Daisy, '95 list.....40@45%
Davis, Bronze. Barnes Mfg. Co...60%
Eltine's Ventilating.....40@70%
Fitch's.....70&10%
Gale's Automatic, List, Nov., '97.65%
Hammond's Window Springs, A 50&10%
Hammond's Window Springs, B..50%
Ives' Patent....60&10&5@60&10&10%
Payson's Perfect.....70%
Reading.....60&10&10@70%

Sash Weights—

Small lots.....₩ ton, $20.00@$21.00
Ton lots at factory.....$18.00@$19.00

Sausage Stuffers or Fillers—

Draw Cut, No. 4, each $30.00.....20%
Enterprise Mfg. Co.....25%
National Specialty Mfg. Co.....25%

Saws—

Atkin's:
Band.....50@50&10%
Butcher, Pruning and Compass.....40&10%
Circular.....50@50&10%
Cross Cut.....40%
Gang.....50@50&10%
Hand, Panel and Rip.....40&10%
Wood.....40&10%
Disston's:
Circular.....50@50&10%
Cross Cuts.....45%
Gang.....50@50&10%
Panel, Hand & Rip.....25%
Haines' Needle Point.....40%
O. E. Jennings & Co.'s:
Butcher..... 30%
Hand Panel, Rip and other Saws 25%
Peace:
Cross Cuts.....45&10%
Hand Panel and Rip.....25&10%
Richardson:
Circular and Mill.....50@50&10%
X Cuts.....45&10%
Hand-saws.....25&10%
Star, Butcher.....25%
Woodrough & McParlin Cross Cuts.....45&10%

HACK SAWS AND FRAMES—
Chatillon.....30%
Griffin's:
Complete.....40&10%
Saw Blades.....40&10@50%
Star, Saws and Blades.....25%

Saw Frames—

O. E. Jennings & Co.....20%
Red, Polished and Varnished...₩ doz., $1.00@$1.10
Richardson's Wood.....net
White Vermont..₩ gro. $8.50@$9.00

Saw Sets—

Atkin's:
Criterion Saw Sets, ₩ doz.....$3.00
Excelsior Saw Tools ₩ doz.....$3.00
Bemis & Call Co.'s:
Cross Cut.....30&5%
Hammer, New Pat.....45%
Plate.....30%
Spring Hammer.....30&5%
Disston's Star.....35@35&10%
Hart's Pat. Lever.....30%
Kohler's:
"Giant Royal".....₩ doz. $3.00
"Royal".....₩ doz $4.00
Leach's.....33⅓%
Morrill's:
No. 1, $15.00; No. 10, $15.50; No. 11, $16.00.....40&5%
Cross-cuts Nos. 3 and 4, $33.00: No. 5, $31.00.....40&5%
Richardson's 35%
Seymour Smith & Son, Hammer. ₩ doz.....$4.75
Stillman's ₩ doz.....$1.00
Taintors Positive...$18.00 ₩ doz. 60%

Scales—

Chatillon's:
Eureka.....35%
Favorite.....40%
Grocers' Trip Scales.....50%
Family, Turnbull's.....30@30&10%
Hatch:
Counter, No. 171, ₩ doz. $17.00@ $18.00
Tea, No. 161.....₩ doz. $5.75@$6.00
Union Platform Plain...$3.00@$3.10
Striped.....$3.15@$3.25

Scale Beams—

Chatillon's No. 1.....40%
Chatillon's No. 2...50&10@50&10&5%
Scale Beams, List Jan. 12, '98.50&10%

Scrapers, &c.—

Adjustable Box Scraper (S. R. & L. Co.) $6.00.....40&10%
Box, 1 Handle.....₩ doz., $2.00
Box, 2 Handle....₩ doz., $3.00@$4.00
Foot.....55&5@50&5%
Ship Common.....₩ doz., $2.40 net
Ship, R. I. Tool. Co.....10%

Screens—

DOORS—
Phillips:
Empire Fancy.....50%
Fancy Pine.....40%
Painted.....60@60&5%
Stained.....60&5%
Standard Oil..... .....50&10%

WINDOW—
Phillips:
Bonanza Screens.....60&10%
Flyer.....60&10%
Perfection Screens.....60&10%
Window Screen Frames....60&10%
Stearns':
Frames and Corners....25@25&10%
Gem Window Screen Frames, 25&10%
Monarch Adjustable Window Screens.....50%

Screw Drivers—

Brace Screw-Drivers.....35&10&5%
Buck Bros.....60%
Screw-Drivers Bits.....37½%
Champion.....40&10%
Disston's.....50@50&10
Pat. Excelsior.....5%&5%
Ellrich's Socket and Ratchet.40&10%
Fray's Hol. Hdle. Sets, No. 3, $13.50%
Howard-Allard.....50&10&10%
O. E. Jennings & Co.....40&10%
Jennings & Griffin.....65&10%
Wm. Johnson's:
128 A.....70&10%
135½ Extra.....70%
138 Ebonized Handle.....70%
141½.....75%
143 Ebonized Handle.....70%
Sargent & Co.'s:
No. 1 Forg. Blade.50&10@50&10&5%
Nos. 20 and 40.....50@5&10%
Screw-Driver Bits....₩ doz., 50@75c
Screw-Driver Bits, Parr's ₩ gro. $4.25
N. E. Specialty Co.'s.....50&10%
Stanley R. & L. Co.'s:
No. 64, Varnished Handles.70&10%
No. 66.....75&10%
Tower & Lyon:
Champion.....33⅓%
"Handy" Ratchet.....35%
Williamson's:
Beauty, ₩ doz.....$1.00 } 40%
Gem, ₩ doz.....90c }
C.T. Williamson Wire Novelty Co. 40%

Screws—

WOOD SCREWS—
Brass, Flat Head.....67½&10%
Brass, Round Head.....35%
Bronze, Flat Head.....35&10%
Bronze, Round Head.....35%
Copper, Flat Head.....35%
Copper, Round Head.....30%
Dowel Screws.....35%
Drive Screws, Rogers'.....90%
Iron, Bright Flat Head.....37½&10%
Iron, Br't R'd & Oval Head.....35%

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Iron, Forged Flat Head.....87½&10%
Nickel Plated, Flat Head.....80%
Nickel Plated, Round Head....77½%
Phosphor Bronze, Flat Head.....60%
Phosphor Bronze, Round Head..55%
Side Knob Screws.....8½%
Silver Plated, Flat Head.....60%
Silver Plated, Round Head.....60%

MACHINE—
List, Jan. 1, 1898.
Brass, Flat Head.....60%
Brass, Round Head.....60%
Iron, Flat Head.....60%
Iron, Round Head.....60%

COACH, LAG AND HAND RAIL—
Coach. List, Feb. 14, 1895.....82½%
Hand Rail.....82½%
Lag Screws. List Jan. 30, 1895. 60&10&5@85%

BENCH, HAND, ETC.—
Bench, Iron, ₩ doz., 1 in., $2.75; 1¼, $3.00; 1¼, $3.50
Bench, Wood, Beech. ₩ doz $2.00@2.20
Chair.....60&10%
Hand, Wood.....30&10@40%
Jack Screws, Millers Falls, Roller Bearing.....50&10%
Jack Screws, Millers Falls, without Roller Bearing.....50&10&10%
Jack Screws, P. S. & W..40@40&10%
Jack Screws, Sargent's..70&10&10%
Jack Screws, Stearns'.....40&10%
Piano Stool.....60&10%

Scroll Saws—
Barnes' No. 1, $8; No. 6, $10; No. 7 $15.....35%
Barnes Scroll Saw Blades.....40%
Cricket.....10&10%
C. E. Jennings & Co.....35%
Lester, complete, $10.00.....15&10%
Rogers, complete, $4.00.....15&10%

Scythes—
Grain.....50&10%
Grass.....50&10%
Scythe Snaths.....50&10@50&10&5%

Seeders—
Raisin, Enterprise.....35%

Shaft Couplings—
Bradley's:
Buggy, No. 8, ₩ Set.....$2.25
Surrey, No. 9, ₩ Set.....$2.60

Shears—
Acme (Cast).....40@40&5%
Ætna, Steel Japanned.....60&20%
Ætna, Steel Nickeled.....70&20%
Barnard's Lamp Trimmers. ₩ doz. $3.75
Clauss:
Nickel.....60%
Japanned.....70%
Davenport Cutlery Co.'s...60@60&10
Heinisch's:
St. Trimmers, etc. 60&10@60&10&10%
Tailor's Shears.....40%
Tinners' Snips.....40%
Pruning. See Pruning Hooks & Shears.
Seymour's List, Dec., 1881. 60&10@60&10&10%
Wiss & Sons:
Japanned.....70%
Nickeled.....60%
Tailors' Shears.....60&10%
Tin Snips.....45%

Sheaves—
SLIDING DOOR—
Corbin's list.....60&10&2%
Hatfield's Pattern.....70&10@80%
M. W. Co., list July, 1882. 50&10@60&5%
Stowell's Anti-Friction.....50%
Patent Roller.....60&10@60&10&5%
R. & E., list August 15, 1895. 60&10@60&10&5%
Russell's Anti-Friction, list Dec. 18, 1895.....60&2%

SLIDING SHUTTER—
Reading list.....60%
R. & E. Mfg. Co.'s.....60@60&10%
Sargent's list.....60@60&10%

Shoes, Horse, Mule, &c.—
HORSE—
Bryden's Frog Pressure.....$4.00
Burden's, Perkins', Phœnix and Bryden's, from jobb'rs..$3.15@$3.40
Gibbs' Rubber, Pat.....₩ set, $1.50
Perkins Steel Side Weight Hind $3.15@$3.40
Perkins Improved Snow.....₩ ₩ 4c
W. & B. Rubber Pad....₩ set, $2.50

MULE—
Add 50c ₩ keg to above prices.

OX, WROUGHT—
Ton lots.....₩ ₩ 9c
1000 ₩ lots.....₩ ₩ 9½c
500 ₩ lots.....₩ ₩ 10c

Shot—
See Ammunition.

Shovels and Spades—
O. Ames & Sons:
C. S. Edge.....6@7½%
Pat. Cast Steel.....7½@10%
Blair's Cast Steel.....5%
Bouve's Steel.....10%
Carter's Cast Steel.....5%
Sanderson's Cast Steel.....5%
Stone's Cast Steel.....6%
H. M. Myers and other manufacturers are now selling at Association discounts.

Shovels and Tongs—
Brass Head.....60&10@60&10&10%
Iron Head.....60&10@60&10&5%

Sifters, Flour—
Hunters' Genuine, ₩ gross, $10@11.50

Sign Letters, Figures, &c.—
Aluminum S. & N. Co.:
Sign Letters and Figures.....60%
Door Plates.....60%
Trade Checks.....40%

Skate Sharpeners—
Eureka...₩ doz. $1.75; ₩ gro. $18.00

Slaw Cutters—
Enterprise.....25%
Enterprise Mfg. Co.....25%
Tucker & Dorsey:
1 Knife.....₩ gro. $15.00@$18.00
2 Knives.....₩ gro $20.00 @$27.00
Kraut Cutters.....50@60&10%
Woodrough & McFarlin.....40%

Slicers—
Vegetable, Enterprise.....35%

Snaps, Harness, &c.
Anchor (T. & S. Mfg. Co).....65%
Cockeyes.....70&10%
Oxweld Mfg. Co.....45&2@50%
Fitch's:
Bristol.....40&10%
Champion.....40&10%
Clipper.....60&10&2%
Empire.....60&5%
National.....60&5%
Victor.....60&5%
German, new list. 40&10@40&10&10%
Sargent's:
Patent Guarded.....70&10&10%
Covered Spring.....60&10%
Open Spring.....70@70&10%
Covert Mfg. Co
Breast Strap Buckle Snaps
Breast Strap Protector....
Double for Bits or Trace Carrier.....
Loop Eye.....
Loop Eye, Swivel.....
Open Eye.....
Round Eye.....
Round Eye, Swivel..... 45&2% @50%
Covert Saddlery Works:
Banner.....60&20%
Triumph.....60&20%

Spoke Shaves—
Bailey's (Stanley R. & L. Co.) 50&10%
Iron.....₩ doz. 50&10%
Millers Falls.....15&10%
Seymour Smith & Sons, Iron.....20%
Wm. Johnson's:
Wood, Best.....30%
Wood, 2nd Quality.....33½%
Wood.....₩ doz. 25&10%

Spoons and Forks—
TINNED IRON—
Basting, Cen. Stamp. Co's list. 75&10@80%
B. B. Noyes Meat Forks..50&10@60%
Buffalo S. S. & Co.....33½&2%
Solid Table and Tea, Cen. Stamp. Co.'s list.....70&25%

SILVER PLATED—
4 mos. or 5% cash 30 days.
Holmes & Edwards Silver Co..60%
L. Boardman & Son.... Catalogue "B"—net List
Meriden Brit. Co. Rogers Bros. 40&15%
C. Rogers & Bros.....40&15%
Rogers & Bro.....40&15%
Wm. Rogers Mfg. Co.....60%
Simpson, Hall, Miller & Co.....60&5%

MISCELLANEOUS—
Boardman's:
Britannia Spoons, Catalogue "B".....net List.
Nickel Silver, Catalogue "B" net List
Britannia.....60&10%
German Silver.....60&10%
German Silver, Hall & Elton..50& 5% cash
Wm. Rogers Mfg. Co.:
18% Rogers' German Silver...60&5%
22% Rogers' Nickel Silver....50&5%
Rogers' Silver Metal.....50&10&5%

Springs—
See Door Springs.

Squares—
Disston's Try Square and T Bevels. 60&10%
Starrett's Micrometer Caliper Squares.....35%
Try Square and T Bevels....60&10 @60&10&10%
Winterbottom's Try & Mitre.50&10%
Nickel-Plated.. } Steel and Iron.. } 75&10@75&10&10%

Stair Rods—
Black Walnut.....60%
Brass, Oval or Hollow.....50%

Staples—
Barbed Blind—⅛, ⅝, and ¾ inch, ₩ ₩.....6c@6½c
Grand Crossing Tack Co. List: 75&10%

Stocks and Dies—
BICYCLE—
Holroyd & Co.....35%

BLACKSMITH'S—
Butterfield's.....35@40%
Gardner.....33½&10%
Holroyd & Co.....40@50%
Lightning Screw Plate.....25%
Reece's New Screw Plates.....25@30%

PIPE MAKERS—
Holroyd & Co.....75&10@80%

Stones—
See Oilstones.

Stops—
See Bench Stops.

Stove Polish—
See Polish, Stove.

Sweepers—
See Carpet Sweepers.

Tackle Blocks—
See Blocks.

Tacks, Brads, &c.—
List March, 25, '95.
American Cut Tacks.....90&10%
Carpet Tacks:
American, Blued....90&10@90&20%
America, Tinned...90&20@90&25%
Leathered.....60%
Steel.....90&20%
Swedes, Lanc.....85&10%
Swedes, S. S.....90&25%
Swedes Iron Tacks:
Lanc.....85&10%
S. S.....90&10&5%
Basket Tacks.....90@90&10%
Basket Nails.....8 &10%
Bill Posters' and Railroad Tacks:
S. S.....90&10%
Brush Tacks and Nails.....75&15%
Chair Nails.....80&10%
Cigar Box Nails.....50%
Common and Patent Brads.....80%
Finishing Nails.....85%
Gimp Tacks:
Lanc.....80&20%
S. S.....90&2 %
Hungarian Nails, Steel.....80&2%
Lace Tacks.....
S. S.....90&20%
Looking Glass Tacks.....60%
Picture Frame Points.....70%
Trimmers' Tacks:
Lanc.....80&20%
S. S.....85%
Trunk and Clout Nails:
Steel, Black.....80&10%
Steel, Tinned.....85%
Upholsterers' Tacks:
Lanc.....80&20%
S. S.....90&10&5%

MISCELLANEOUS—
Bill Nye Brad Box.....₩ box $4.00
Bill Nye, Jr., Brad Box..₩ box $2.00
Bonnie Blue.....₩ box $1.50
Can Opener Carpet Tacks. ₩ gr $4.00
Dble. Point. 90&10&10&10&10&10%
Hammer Carpet Tacks..₩ gr. $4.50
Miniature Keg Tacks..66⅔&33⅓& 10&10&2%
Parisian Gilt Nails, carton.....50%
Plymouth Rock Tacks. 66⅔&33⅓& 10&2%

Tack Pullers—
Columbia, No. 1, per doz., net,....$1
" " 2, " ...1.50
Little Jack.....₩ doz. $1.00

Tapes, Measuring—
American.....40&10@50%
Chestermans.....25& 2 &5%
Keuffel & Esser Co., New list, 1898: Steel and Metallic.....3½%
Lufkin's Steel and metallic..30&10%

Taps—
American Screw Co.
Machine Screw.....70%
Holroyd & Co.'s:
Blacksmiths.....60@65&5%
Machine Screw.....70&10@75%
Machinists' Hand...60@65&10&10%
Pipe.....85@85&10&5%

Telephones—
Union Electric Co.:
Letter A, Complete....each, $10.00
Letter B, for Warehouse..each, $8.50
F. o. b. cars Cleveland.

Tin, Perforated—
Harrington & King Perforating Co.: 10 14x20, 112 Sheets in Box.

Numbers.	Per Box.	Per Doz.
1	$9.50	$1.55
2	$9.00	$1.55
3	$8.25	$1.35
4	$7.75	$1.30
5	$7.50	$1.20
5½	$7.25	$1.20
6	$7.00	$1.15
7	$7.00	$1.10
8	$6.75	$1.05

Chicago or New York delivery.

Tinners' Shears, &c—
Shears and Snips (P. S. & W.).30&2%
Snips, J. Mallinson & Co.....33½%
Snips—"Clauss".....30%

Tinware—
Stamped, Japanned and Pieced, list Jan. 20, 1897.....70&10@70&25%

Tobacco Cutters—
National Specialty Co.....40%

Trammel Points—
Backus and Union.....40%
C. E. Jennings & Co., "Eureka".25%
Cook's.....25%
Sargent's.....70&10@70&10&10%
Stanley's.....30&10%
Tower & Lyon.....33½%
Prentiss'.....20@25%

Tracks, &c.—
F. E. Myers & Bro.:
Comb. Car., Double Steel T...$3.50
Comb. Car., Wood Track....$3.25
Common 6 in. Wood Sheave Pulley, Fig. 423. ₩ doz.....$1.65
D. H. Fork, Steel Regular, each .75
Double Grapple Fork, each...$3.25
Double Rail Steel Track complete with clamps. ₩ ft.....09
Faultless Steel Frame K. P Pulley, Fig. 435, ₩ doz.....$2.00
Faultless Steel Frame 6 in. Plain Pulley, Fig. 435, ₩ doz. $1.75
Floor Hooks, ¾ in. ₩ doz. .55
Floor Pulley, Wood Sheave, Fig. 496, ₩ doz.....$2.00
Hanging Hooks for Double Steel Track, ₩ doz..... .60
Hanging Hooks for Single Steel Track, ₩ doz..... .60
Hanging Hooks for Wood Track, 10 in. ₩ doz..... .45
Hanging Hooks for Wood Track, 14 in., ₩ doz..... .55
Malleable Frame K. P. Pulleys, Figs. 380 and 381 ₩ doz. $2.00
Malleable Rafter Brackets, ₩ doz..... .45
Nellis Fork, each.....$1.50
New Departure Sling Complete, Steel or Wood Track, (includes four sling ropes). $12.00
New Myers Iron Rod Car.....$2.75
Reed Wood Frame Pulley with Hook, Fig. 434, ₩ doz..... .....$2.25
Rev. Car., Double Steel Track $3.50
Rev. Car., Wood Track.....$3.25
Rope Hitch ₩ doz.....$1.75
Single rail Car, Single Steel T. $3.50
Single rail Steel Track with clamps, ₩ ft..... .09
Sprouts Shear Fork, each....$1.40
Steel Frame Pulley with Iron Sheave, Fig. 565, ₩ doz.....$1.50
Sure Grip Sling Car., Steel or Wood Track.....$6.00
Walker Fork, each.....$1.15
Wrought Rafter Brackets, ₩ doz..... .45

Transom Lifters—
Ajax.....50&10@50&10&5%
Bronze Metal, with Safety Spg. 5 @ 0&10%
Crescent.....70@7 &10%
Dicksons.....60%
Nickel Plated.....50&10%
Payson's Solid Grip, Nos. 3, 3 and 304.....₩ 100, $12.00
Shaw's:
Copper Finished.....30&10%
Lever.....70@70&10%

Traps—
GAME—
Blake's Patent.....60@60&10%
Enterprise Mole.....15%
Newhouse.....40&10@50&5%
Oneida Pattern.....75&5@75&10%

MOUSE AND RAT—
Enterprise Mfg. Co., Mole.....15%
Rat.....40@40&10%
Household.....₩ gr $10.00
Hotchkiss:
Metallic Mouse,.....₩ doz. 65c
Improved Rat.....₩ gross, $12.50
New Rat.....₩ gross. $12.50
Mouse, Bonanza....₩ doz 90c@$1.00
Mouse, Catch-'em-Alive ₩ doz $2.50, 15%
Mouse, Delusion.....40%
Mouse, Ideal.....₩ gr $9.00
Mouse, Round Wire. ₩ doz $1.50, 10%
Mouse, Wood, Choker, ₩ doz holes 10c@9c
Schuyler Rat Killer, No. 1 ₩ gro., $13.50; No. 2 ₩ gro., $10.00

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Smith & Egge Mfg. Co:
Superior Rat Trap, ₩ doz....$15.00
Yankee Mouse Trap, ₩ doz.. $5.50
Yankee Rat Trap, ₩ doz.....$11.00
Specialty Novelty Co:
Snap Shot, 2-Hole....₩ gro., $4.50
Snap Shot, 4-Hole....₩ gro., $6.50

FLY-

Balloon, ₩ doz $1.25.....₩ gr. $13.50
Electric Rod.....₩ gr. $16.50
Globe.....₩ doz., $1.25; ₩ gr. $13.50
Harper....₩ doz., $1.75; ₩ gr. $16.50

Trowels—

Brade's Brick.....30%
Disston's:
Brick.....25@35&10%
Plastering.....25@35&10%
Pointing.....30%
C. E. Jennings & Co.:
Brick.....30%
Plastering.....25%
Pointing.....30%
Wm. Johnson's:
Brick.....40%
Plastering.....40%
Pointing.....40%
W. & McP. Plastering....25@25&10%
Peace's Plastering.....25@25&5%
Richardson.....25@25&10%
"Rose" Brick Plastering and Moulders.....30@30& 10%
Sargent's Garden, No. 1.....70%
Sargent's Garden, No. 15.....50%

Vegetable Slicers—

Enterprise Mfg. Co.....25%

Ventilators—

CHIMNEY—

Pancoast's Double Deflector.70&10%

WINDOW—

Pancoast's "Common Sense," ₩ doz. $9.00

Vises—

Solid Box.....50&10@60%

PARALLEL—

Alligator.....50%
Armstrong's:
Combination.....50%
Plain and Hinge.....60%
Athol, Oval Slide.....60&10%
Bonney's Champion.....50@50&5%
Fisher & Norris Double Screw 15&10%
Holland's.....40@40&10%
Howard's.....40&10%
Little Giant Bench.....25&10&5%
Lowell Hand.....33⅓%
Massey's Quick Action.....20@25%
Merrill's.....20&15%
Millers Falls, Mechanics'...net@10%
Moore's.....20%
Parker's.....20@25%
Oval Slide.....50&10%
Victor.....30%
Prentiss.....20@25%
Sargents.....70&10%
Simpson's Adjustable.....40%
Stephens'.....25@30%
Trenton.....40&5@40&10%
Wilson'.....55%

SAW FILERS—

Bonney's Nos. 2 & 3 $15.00.....60%
Stearn's Com., No. 0, 1, 2, and 3..50%
Stearn's Rubber Jaw, Nos. 10 and 33.....33⅓%
Wentworth's.....35@40%

Wads—

See Ammunition.

Wagon Jacks—

Covert's Saddlery Works:
Victor.....60&20%
Daisy.....60&20%
Lane's Steel.....30%

Washer Cutters—

Otis A. Smith's.....20&10&10%

Weather Strips—

Church's:
Axtell, Lacquered, 36 in. ₩ doz. $5.00
Axtell, Lacquered, 42 in. ₩ doz. $7.00
Axtell, Pol. Brass, 36 in. ₩ doz. $12.00
Axtell, Pol. Brass, 42 in. ₩ doz. $15.00

Weed Diggers—

"Pastime".....₩ doz. $1.75 net

Window Cleaners—

Barnes Mfg. Co.....40%
Clayton's.....25&10%

Window Mirrors—

Bayer & Co.'s..... ₩ doz. $24.00 net

Window Stop Adjusters—

Taplin's "Perfection".....50%

Wire and Wire Goods—

Brass Wire.....35%
Bright Wire Goods, Standard list 35&10&10@90%
Cast Steel Wire.....50%
Copper Wire.....45%
Malin's Annealed and Tinned on Spools.....60&10%
Malin's Brass and Copper on Spools.....50&10%
Market Wire:
Brt. & Ann., Nos. 0 to 18...80&10@80&10&5%
Cop'd, Nos. 0 to 18.....80@80&10%
Galv., Nos. 0 to 18.....80@80&10%
Tin'd, Tinned list Nos. 0 to 18.....75&10@80%
Picture Wire.....New list 35&10%
Steel Music Wire, Nos. 13 to 30, Imported, ₩ ℔.....60@70c
Stub's Steel Wire.....$6.00 to $ 30%
Tinned Broom Wire, Nos. 18 to 21, ₩ ℔.....6½c
Wire Clothes Lines, see Lines.

Wire Cloth, Netting, &c.—

Brass Cloth.....40@55%
Galvanized Wire Netting..80&10@80&20%
Painted Screen Cloth good quality, ₩ 100 sq. ft..$1.10@$1.20
Steel Bolting Wire Cloth.....30@55

Wire Rope—

List.
Cast-steel.....20&2½&2% cash
Iron.....20&2½&2% cash
Iron, Galvanized..20&2½&2% cash

Wire Rope Clips—

Crosby.....35%

Wire Stretchers—

W. C. Heller's Grip.....₩ doz. $1.50

Wrenches—

Agricultural.....30@30&10%
Aiken's Pocket (Bright)..$3 00@3.20
Alligator.....60@60&10%
American Adjustable.....40@40&10%
Armstrong's.....40%
Baxter's.....65@65&10%
Bemis & Call's:
Brigg's Pattern.....30&10%
No. 2 Cylinder or Gas Pipe.....55%
No. 3 Pipe, Bright.....60%
Patent Combination Black.40&10%
Patent Combination Bright.40&5%
Boardman's.....30@33⅓%
Champion Carriage.....40%
Cincinnati Tool Co:
Bit.....15@15&10%
Standard Brace.....15@15&10%
Coes':
Genuine.....40&10&5&5&3%
"Mechanics'".....40&10&10 &5&5&3%
Coes' Pattern Wrought.....30&10%
Donohue's Engineer.....40&10%
Eagle Pipe.....50&10%
Expert Bicycle.....33⅓&10%
Girard Standard.....65&10@70%
Hall's Pipe.....50%
Lamson & Sessions':
Engineers'.....60@60&10%
Standard.....70&10%
Lowell:
Lag Screw.....35%
Ratchet.....33⅓%
Socket Bridge.....30%
Stillson Pipe.....45%
Taylor Pipe and Nut.....40%
Trimo Combination.....40%
Trimo Pipe.....50&10%
Wakefield Pipe and Nut.....40%
Whitman & Barnes:
Acme.....60@60&5%
All Steel Pipe.....50&10@60%
Always Ready.....35@40&10
Bull Dog.....50&10%
Diamond Cycle.....₩ doz $3.00
Drop Forged Engineers.35@40&10%
Hercules.....70&10@75%
Improved Knife Handle Pipe 60@60&5%
Machinists' Knife Handle.50&10 @50&10&10%
Regular.....50&5@ 0&10&5%
J. H. Williams.....35%
Yankee.....40%

Wringers, Clothes—

In lots of less than one dozen. Cash.
Am. Wringer Co.'s list, July 1895, 25
Colby Wringer Co., list May 1, 1894, 25
Lovell Mfg. Co., list July 2, 1894...25
National Wringer & Mfg. Co., list Jan. 1, 1895.....25
Peerless Mfg. Co., list Feb., 1892...25
NOTE.—On lots of 1 dozen a discount of 10% is often given.

PAINTS, OILS AND COLORS.

Oils—

Linseed, City, Raw, in barrels..₩ gallon.....42c
Linseed, City, Boiled, in barrels ₩ gallon.....44c
Out of Town on Spot..₩ gal.....42c
Calcutta, Raw, in bbls....₩ gal. 54c
Lard, Prime City.....₩ gal. 33@40c
Western, Prime.....37@38c
Extra, No. 1.....35@36c
No. 1.....30@31c

Paints and Colors—

Barytes, Foreign, ₩ ton, $15.00@$18.00
Barytes, American Floated, ₩ ton $22.00@$23.00
Barytes, American, No. 1, ₩ ton, $9.00@$10.00
White Lead, American, Dry, in Bbls. ₩ ℔.....5c
White Lead, American, in Oil, ₩ ℔.....5½@6c
White Lead, Foreign, in Oil, ₩ ℔ 8@8½c
Litharge, Kegs, ₩ ℔.....5½c
Zinc, American, Dry, ₩ ℔....4@4½c

Putty—

In bbls. and half bbls.....1½@1¾
Putty in Bladders.....1¾@2
Putty in Tins.....1½@2¼

Spirits Turpentine—

In regular bbls.....34½@——c
In machine bbls.....35@——c

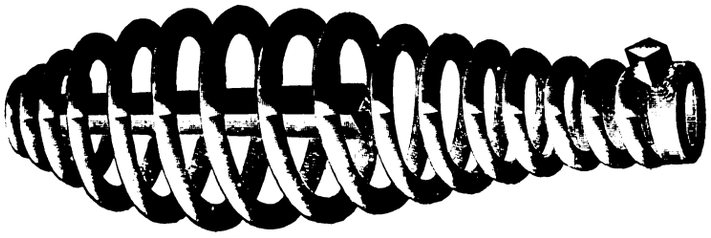
Dry Colors—

Blue, Chinese.....₩ ℔ 37 @40
Blue, Prussian.....₩ ℔ 30 @35
Blue, Ultramarine..₩ ℔ 8 @35
Sienna, Italian, burnt & powd red ₩ ℔ 3½@5 c
Sienna, Italian, raw & powdered...₩ ℔ 3 @4½c
Umber, Turkey, burnt.....₩ ℔ 2½@3½c
Umber, Turkey, raw.....₩ ℔ 2½@3 c
Green, Chrome, Common.....₩ ℔ 5 @12 c
Green, Paris, in bulk, ₩ ℔ 11½@12½c
Indian Red, American.....₩ ℔ 2 @3 c
Indian Red, English.....₩ ℔ 4½@8

Colors in Oil—

Black Coach Japan ₩ ℔..18½@20
Black Coach Japan, in Oil.....₩ ℔ 12 @13 c
Black Drop.....₩ ℔ 7 @10 c
Black Lampblack...₩ ℔ 20 @33 c
Black Lampblack, common.....₩ ℔ 7@15 c
Blue, Chinese.....₩ ℔ 35 @40 c
Blue, Prussian.....₩ ℔ 30 @40 c
Blue, Ultramarine..₩ ℔ 12 @18 c
Brown, Sienna, burt ₩ ℔ 8 @12 c
Brown, Sienna, raw..₩ ℔ 8 @13 c
Umber, burnt.....₩ ℔ 7 @10 c
Umber raw.....₩ ℔ 7 @10 c
Brown, Vandyke....₩ ℔ 7 @13 c

ALASKA SOLDERING IRON HANDLE



FITS ANY IRON.

Want to see one? Send us 25c. We will mail you one.

. . . ALWAYS COLD.

Sold by all Jobbers in Hardware or Plumbing.

Made only by . . . .

TROY NICKEL WORKS,

ALBANY, N. Y.

"BROUGHT US MANY PAYING CUSTOMERS."

Defiance Bicycle Co., Defiance, Ohio. [*Bicycles*]: We are much pleased with the results obtained from our advertisement in HARDWARE during the past season. It has brought us many paying customers, and we feel that the money paid you was well invested.

"HAVE FOUND IT SATISFACTORY."

The Ideal Mfg. Co., New Haven, Conn. [*Reloading Tools*]: We recognize your medium from time to time, and have found it satisfactory.

"OF INTEREST TO LIVE DEALERS."

Van Voorhis & McNair, Crawford, Neb.: We like the journal very much. It always comes to our desk full of bright, sound matter, that cannot but be of interest to all good live dealers.

"JUST THE PAPER RETAILERS WANT."

Henry E. P. Pritchard, Philadelphia, Pa.: Enclosed find $1 for which please send me HARDWARE for one year. It's just the paper retailers want.

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THE POPULARITY

Of our premium list, evidenced by the eagerness with which new subscribers are availing themselves of the opportunities offered, has compelled us to extend the time limit We will therefore continue this offer until further notice to **NEW 1898 SUBSCRIBERS.**

ALL THE NEWS. **HARDWARE** HARDWARE EXCLUSIVELY.

Needs no introduction to the Hardwareman. He already knows what a valuable adjunct to his business this semi-monthly visitor is, with its reliable "Prices Current," its "Market Reviews" and its general news of interest to the Hardware trade.

FOR $1.00 We will send "**HARDWARE**" for one year, and ANY **ONE** of the following articles:



A dating stamp that will last till 1902, with 12 special entries for marking letters and bills.

Huebsch's Year Book.

A 365-page Cloth Bound Diary—one page for each day in the year—4½x9 inches, bound in flexible cloth covers. Invaluable to merchants, manufacturers, bookkeepers, clerks, etc.

Indexed Coupon Books

representing one hundred dollars—to enable you to put your business on a cash basis—do away with pass books——to prevent bookkeeping errors. No disputes over accounts—no delinquent debtors or bad accounts. Used throughout the country now instead of credit system.



A numbering stamp, which will number from 1 to 999.999. You can number every article in your store with this stamp. It is indispensable to the careful retailer.

FOR $1.25 We will send "**HARDWARE**" for one year and your choice of the following six premiums:

1. A Perfect Fountain Pen . . . . with 14 kt. gold pen and a filler, warranted to give the most satisfactory results. Made by one of the oldest fountain pen houses in America, and fully guaranteed. . .



2. A Silver Mounted Stationery Set. Seal, letter opener, and paper knife with pearl blade—that gives an air of elegance to your desk. . . .

3. Huebsch's Year Book . . . . (large size), 6x9 inches, bound in flexible cloth, made to last. IT IS YOUR BUSINESS MEMORY, and will not fail you.

4. If You Have a Good Name . . . you may like to see it in your window. We send you ten of the best white enamel 4-inch letters, with a half pound of best cement and full instructions for putting up. If 4-inch letters are too large, send for twenty 2-inch letters. If you require more than the quantities specified, we will send you extra letters; 4-inch at 6 cents each, and 2-inch at 3 cents each. . . . . .

5. Half Dozen Photographs. . . . . Send us any photograph, with your name and address written plainly on the back, and we will return it to you together with six medallion copies of the original, mounted on celluloid, with a wire stand. We guarantee the medallions to be as good as the original. . . . .

6. Bushnell's Price Book . . . bound in seal morocco, 4¾x6⅞ inches, 200 pages, adapted to the use of the traveling man, the home salesman and the office. Neatly indexed, red edged, ruled faint, printed headings. This practical Price Book is in almost universal use. . . . . .

Address all communications to

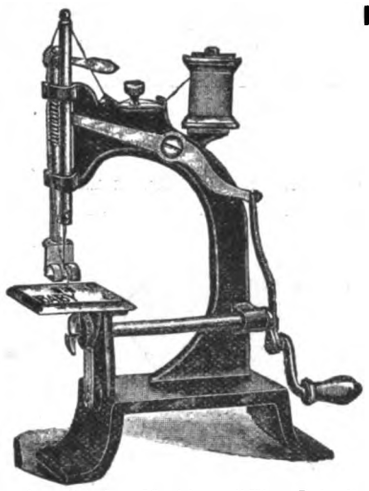
HARDWARE PUBLISHING CO., No. 143 CHAMBERS STREET, NEW YORK CITY.

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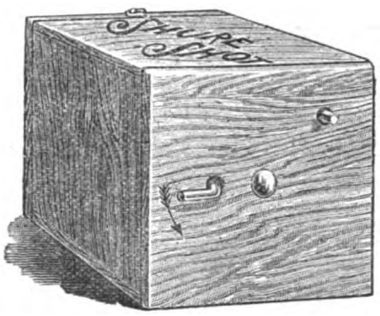
You Live

In hopes of always securing the greatest "helps" to your business. *"HARDWARE"* is a "help." It helps the dealer to buy economically, and helps the manufacturer to sell extensively. *"HARDWARE"* for one year, and any one of the following attractive premiums sent post paid for ***$1.50.*** This offer applies to

NEW 1898 SUBSCRIBERS ONLY.



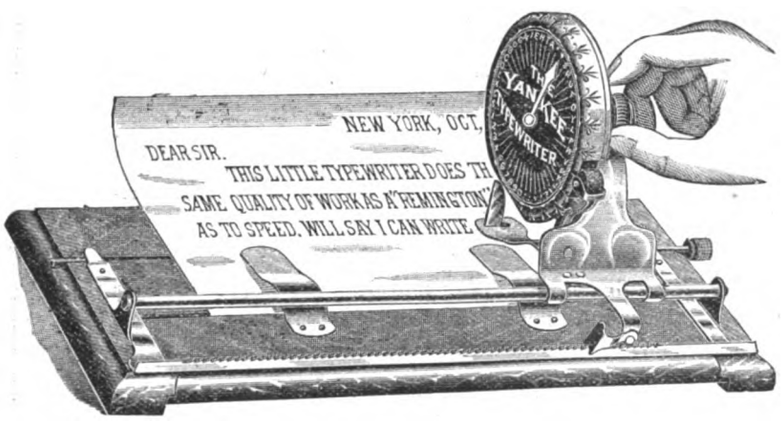
A perfect Sewing Machine. "The Baby" It uses regular Wilcox & Gibbs needles and ordinary machine thread. It is strong and simple; won't get out of order; can be clamped on any table, and is so constructed as to make it almost impossible for the smallest child to injure itself with the needle.



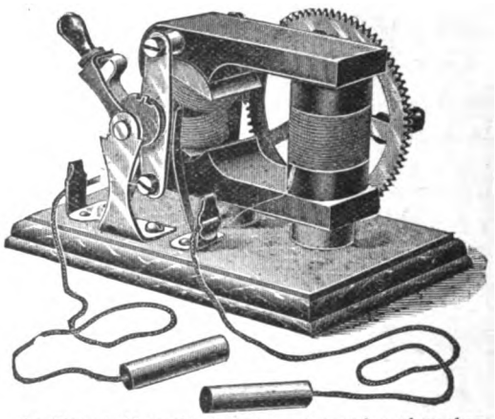
Just think- a complete Camera and an outfit to print, develop and mount. Makes a picture 2½x2½ inches, and its work compares favorably with higher-priced ones of which it possesses the best features, including an instantaneous shutter, adjustable to time exposures if desired, and operated by a lever and button just as your $50 outfit is.



An Open-Faced Nickel-Plated Watch; fully guaranteed for a year. Winds and sets in back of case, and will stand rough usage, and keeps as good time as an expensive watch.



The Yankee Typewriter.—Will write 15 to 20 words a minute; will take any size paper, from postal card to foolscap size. Has automatic carriage and paper feed. Mounted on highly finished hardwood base, and packed in a strong wooden case.



An Electric Magnetic Machine.—A wonder of mechanical perfection. Supersedes the old style medical batteries, and gives a stronger current without the expense of renewals It has a current regulator which can be adjusted to a nervous child or to overpower the strongest man.

OF COURSE, YOU TAKE A MAGAZINE,

Probably one in the subjoined list, if it is not, let us know, and we'll put it there, The first column shows the price you would have to pay for the magazine alone. The second column indicates the price at which we will send you "HARDWARE" and the magazine for a year. In many cases you will find the combined price is no more than the single one, and you know you can't afford to do without "HARDWARE." This offer applies to **New 1898 Subscribers only.**

MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
ART AMATEUR,	$4.00	$4.00
ART INTERCHANGE,	4.00	4.00
ATLANTIC MONTHLY,	4.00	4.00
BOOK BUYER,	1.00	1.50
CENTURY MAGAZINE,	4.00	4.25
CHAUTAUQUAN,	2.00	2.50
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DEMOREST'S FAMILY MAGAZINE,	1.00	1.50
ELECTRICAL WORLD.	3.00	3 25
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MAGAZINE.	Regular Subscription Price.	With "HARDWARE," Price.
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TRUTH,	2 50	2.75
YOUTH'S COMPANION	1.75	New 2.00 Ren. 2.25

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May take advantage of the following liberal offers:

1. "American Hardware Trades Reference Book," published by Thomas Publishing Co., with "HARDWARE" for one year, will be sent on receipt of **$1.50.** Those who are already paid subscribers to "HARDWARE" will receive the book, on sending **50c.** This book is a complete directory of the manufacturers of Hardware in the United States. Each manufacturer is classified under the name of every article he makes. The financial rating is given in each case; 8000 Names; 25,000 Headings.

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2. "Ladd's Discount Book," with "HARDWARE" for one year, for **$3.00** Single Index, and **$4.00** Double Index. Present subscribers will be credited for one year in advance. If you have to calculate discount this comprehensive work will save many times its price in time, trouble and mental strain. Its comprehensive character may be realized from the fact that it contains nearly 200 pages of positively accurate tables or more than 120,000 computations giving at a glance the net of any sum at all discounts from 1 per cent. to 95 per cent. together with a great range of combinations.

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3. "American Hardware Store," with "HARDWARE" for one year, for **$3.00.** The "AMERICAN HARDWARE STORE," containing 450 pages and 500 illustrations, is an exhaustive treatise on the most approved methods used by the successful merchants of this country to arrange, display and sell Hardware. It is edited by R. R. Williams, editor of the *Iron Age*, and published by the David Williams Co., of this city, at $3.00. By a special arrangement, we are enabled to combine "HARDWARE" with the book at the same price. Present subscribers will be credited for a year, in advance of their present subscription.

Fill out Order, and address as below:

ORDER BLANK.

HARDWARE PUBLISHING CO.,

NO. 143 CHAMBERS STREET, NEW YORK CITY

Gentlemen: Inclosed please find _____ dollar and _____ cents for which please send me postpaid "HARDWARE" for one year and _____ offered as a premium.

Name _____

Address _____

N. B.—All premium offers, except where otherwise specified, apply to **NEW SUBSCRIBERS ONLY.**

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Perforated Filter Press Plates.

THE HARRINGTON & KING PERFORATING CO. CHICAGO.



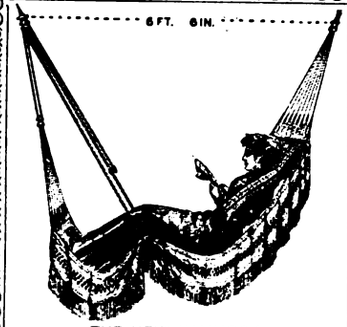
BRONZE SCREEN PLATES To withstand action of ACIDULATED WATERS.

PERFORATORS OF STEEL, IRON, COPPER, ZINC, BRASS AND TIN.

For use in GRAIN CLEANING AND MINING MACHINERY, WOOLEN, COTTON, PAPER AND PULP MILLS, RICE, FLOUR AND COTTON SEED OIL MILLS. SUGAR AND MALT HOUSES, DISTILLERIES, FILTER PRESSES, STONE, COAL AND ORE SCREENS, BRICK AND TILE WORKS, FILTERS, SPARK ARRESTERS, GAS AND WATER WORKS, OIL, GAS AND VAPOR STOVES, COFFEE MACHINERY, Etc.

STANDARD SIZES PERFORATED TIN AND BRASS ALWAYS IN STOCK.

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PALMER'S UTOPIA.
—POSITION EASILY CHANGED.—

THE NEW HAMMOCK
. . . PALMER'S UTOPIA.

We still lead the world in variety of colors, styles and sizes in our elegant lines of

PERFECTION AND ARAWANA HAMMOCKS.

Send for 1898 Catalogue.

Infringers are being prosecuted.

See our Catalogue for special assortment of bales for small buyers.

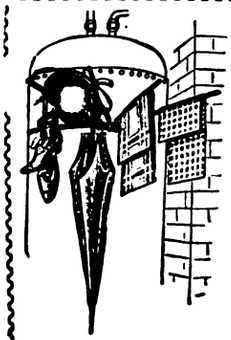
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I. E. PALMER, - Middletown, Conn., U. S. A.

NEW YORK OFFICE, 62 WHITE STREET.





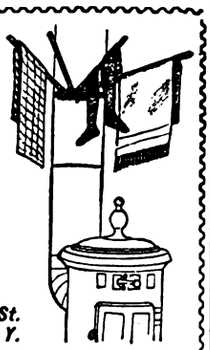
THE JEWEL BOILER DRYING RACK

Fits any Size Range Boiler or Stovepipe.

Retails for 35 cents.

TRADE PRICE, - $24. PER GROSS.

To introduce, will accept orders for 1 dozen or more at the gross price. Satisfaction guaranteed. . . . .



Gem Mfg. Co., 167 Chambers St. NEW YORK, N. Y.

NOTICE.

The heater formerly known as THE C. R. MERES and manufactured by the C. R. MERES HEATER MFG. CO., of Norwalk, O., has been changed to the . . . .



Duplex Water Tube Heater,

and will, hereafter, be manufactured by the S. W. Owen Co, at the old stand, West Water street. Address all communications to the new firm and come our way for the best heater on earth. The only heater manufactured that is positively protected against expansion and contraction.

S. W. OWEN CO.,
Norwalk, Ohio.

SNELL MANUFACTURING COMPANY, FISKDALE, MASS.

Manufacturers of HIGH GRADE CARPENTERS' TOOLS,



SINGLE TWIST AUGER BITS.

We guarantee this Bit has no equal for boring into all grades of wood, hard or soft. Reasonable in price.

Write for prices to the factory, or our agents

John H. Graham & Co., 113 CHAMBERS ST., NEW YORK.

Underhill, Clinch & Co., 94 CHAMBERS ST., NEW YORK.

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Anti-Rattler.
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Reading Hardware Co., Reading, Pa.

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Babbitt Metal.
Bruce & Cook, New York
Magnolia Metal Co., New York.

Barb Wire.
Fuller Bros. & Co., New York.

Basin Plugs.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Batteries.
Ohio Electric Works, Cleveland, Ohio.

Bearing Metal.
Magnolia Metal Co., New York.

Bells.
Bristol Bell Co., Bristol, Conn.
J. Doughty & Co., Philadelphia.
Dunbar Bros., Bristol, Conn.
John H. Graham & Co., New York.
N. N. Hill Brass Co., East Hampton, Conn.
New Departure Bell Co., Bristol, Conn.
Ohio Electric Works, Cleveland, Ohio.

Bells, Electric.
See Electric Bells and Supplies.

Belt Dressing.
Jos. Dixon Crucible Co., Jersey City, N. J.

Belting.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting Co., Newark N. J.
See Rubber Belting.

Bench Stops.
Charles Morrill, New York.

Bicycle Stands.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
John H. Graham & Co., New York.
F. E. Myers & Bro., Ashland, Ohio.

Bicycles and Bicycle Sundries.
Aluminum Sign & Novelty Co., Columbus, Ohio
Bristol Bell Co., Bristol, Conn.
Codling Mfg. Co., Bristol, Conn.
Cushman & Denison, New York.
J. Doughty & Co., Philadelphia.
Dunbar Bros., Bristol, Conn.
John H. Graham & Co., New York.
N. N. Hill Brass Co., East Hampton, Conn.
Lane Bros., Poughkeepsie, N. Y.
M. Leiner, New York.
Edward Miller & Co., Meriden, Conn.
Miller & Van Winkle, Brooklyn, N. Y.
New Departure Bell Co., Bristol, Conn.
New York Belting & Packing Co., Ltd., New York.
Geo. W. Nock, Philadelphia.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Pope Tube Co., Hartford, Ct.
Remington Arms Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Sterling & Nutting Co., New York.
Spears Mfg. Co., Worcester, Mass.
Chas J. Stebbins, New York.
E. K. Tryon, Jr., & Co., Philadelphia.
Union Heater Supply Co., Detroit, Mich.

Bicycle Step Ladders.
Bicycle Step Ladder Co. Chicago.

Blind Hinges.
Stanley Works, New Britain, Ct.

Bits.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
Snell Mfg. Co., Fiskdale, Mass.

Blacksmith's Outfits.
Holroyd & Co., Waterford, N. Y.

Blocks, Tackle.
See Tackle Blocks.

Bolts.
Brass Goods Mfg Co., Brooklyn, N. Y.
Bruce & Cook, New York.
Franklin S. Miles, Philadelphia.
Union Nut & Bolt Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Bone Black.
Geo. F. Taylor's Sons, New York.

Box Straps.
Quincy Hdwe. Mfg. Co., Quincy, Ill.

Braces.
Lancaster Machine & Knife Works, Lancaster, N. Y.

Brackets.
Atlas Mfg. Co., New Haven, Conn.
John N. Hager, Ft. Atkinson, Wis.
W. C. Heller & Co., Montclair, N. J.

Brass & Composition Castings.
C. H. Angus, Albany, N. Y.
Magnolia Metal Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Brass, Manufacturers.
Waterbury Brass Co., New York

Brass, Perforated.
Harrington & King Perforating Co., Chicago.

Brazing Machines.
Union Heater Supply Co., Detroit, Mich.

Bridges.
Berlin Iron Bridge Co., East Berlin, Conn.

Brushes.
Buchel Brush Novelty Co., New Orleans, La.

Buffing Wheels.
Divine Bros., Utica, N. Y.

Buggy Canopies.
Sprague Umbrella Co., Norwalk, Ohio.

Builders' Hardware.
Norwalk Lock Co., South Norwalk, Conn.
Russell & Erwin Mfg. Co., New York.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.

Bungs.
John Sommer's Sons, Newark, N.J.

Butcher Knives, Tools and Steels.
John Chatillon & Sons, New York.

Butts.
Bommer Bros., Brooklyn, N. Y.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Stanley Works, New Britain, Ct.

Butts, Spring.
Bommer Bros., Brooklyn, N. Y.

Calipers.
Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
J. T. Slocomb & Co., Providence, R. I.

Can Openers.
F. J. Hall Co., Wallingford, Conn.

Canopies and Fixtures.
I. E. Palmer, Middletown, Conn.

Car Sealers.
Charles Morrill, New York

Carpet Sweepers.
Bissell Carpet Sweeper Co., Grand Rapids, Mich.; New York.
Grishen Sweeper Co., Grand Rapids, Mich.

Carpet Stretchers.
R. W. Montrose, Galien, Mich.

Carving Tools.
Hammacher, Schlemmer & Co., New York.

Carriers.
F. E. Myers & Bro., Ashland, Ohio.

Casters.
Allerton, Clarke Co., New York.

Castings.
Aluminum Sign & Novelty Co., Columbus, Ohio.
C. H. Angus, Albany, N. Y.

Cellar Grates.
Hess, Snyder & Co., Massillon, O.

Cement.
New York Belting & Packing Co., Ltd., New York.
P. H. Starr, Norwalk, Ohio.

Chains.
Bridgeport Chain Co., Bridgeport, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Cherry Stoners.
Enterprise Mfg. Co., Philadelphia.
Goodell Co., Antrim, N. H.

Chimney Ventilators.
Hess, Snyder & Co., Massillon, O.

Chucks.
Detroit Twist Drill Co., Detroit, Mich.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Clay Screens.
Harrington & King Perforating Co., Chicago.

Clamps.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Cleavers.
John Chatillon & Sons, New York.
Lancaster Machine & Knife Wks., Lancaster, N. Y.

Clippers, Horse and Barbers'.
American Shearer Mfg. Co., Nashua, N. H.
Chicago Flexible Shaft Co., Chicago, Ill.
Coates Clipper Manufacturing Co. Worcester, Mass.
Alfred Field & Co., New York.
John H. Graham & Co., New York.

Clock Springs.
Wallace Barnes, Bristol, Conn.

Closet Pulls.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Clothes Dryer.
Hill Dryer Co., Worcester, Mass.

Coal Screens.
Edward Darby & Sons, Phila., Pa.
Harrington & King Perforating Co., Chicago.

Coat, Hat and Ceiling Hooks.
Atlas Mfg. Co., New Haven, Conn.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Copper.
Bruce & Cook, New York.

Copper, Perforated.
Harrington & King Perforating Co., Chicago.

Cordage and Twines.
Samson Cordage Works, Boston.

Cork Pullers.
Enterprise Mfg. Co., Philadelphia.

Corkscrews.
Erie Specialty Co., Erie, Pa.
Alfred Field & Co., New York.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Counterfeit Detectors.
Pelouze Scale & Mfg. Co., Chicago.

Crayon.
Jos. Dixon Crucible Co., Jersey City, N. J.

Cresting.
E. T. Barnum, Detroit, Mich.

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Curled Hair.

Baeder, Adamson & Co., N. Y., Phila., Boston and Chicago.

Curry Combs.

John H Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
New York Stamping Co., Brooklyn, N. Y.
Surpless, Dunn & Co., New York.

Curtain Rings.

American Ring Co., Waterbury, Conn.

Cutlery.

John Chatillon & Sons, New York.
Alfred Field & Co., New York.
Goodell Co, Antrim, N. H.
Hammacher, Schlemmer & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Patterson, Harral & Gray, N. Y.
Jos. Rodgers & Sons, Sheffield, England.
Wm. Schollhorn Co., New Haven, Conn.
Sickels & Nutting Co., New York.
Tuck Mfg Co., Brockton, Mass.
J. Wiss & Sons, Newark, N. J.

Cutters, Fodder.

Silver Mfg. Co., Salem, Ohio.

Dampers.

Arcade Mfg. Co., Freeport, Ill.
Troy Nickel Works, Albany, N. Y

Dies.

Ferracute Machine Co. Bridgeton, N. J.
F. E. Myers & Bro., Ashland, Ohio.
E. S. Stiles Press Co., Watertown, N. Y.

Display Brackets.

John N. Hager, Ft. Atkinson, Wis.

Dog Collars and Muzzles.

Alfred Field & Co., New York.
Tower & Lyon, New York.
Union Hardware Co., Torrington, Conn.

Door Checks and Springs.

John Chatillon & Sons, New York.
Norton Door Check & Spring Co., Boston, Mass.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York.

Doors and Shutters, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.

Drills.

Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Kearney & Foot Co, New York.
Knapp & Cowles Mfg. Co., Bridgeport, Conn.
Silver Mfg. Co., Salem, Ohio.
Standard Tool Co., Cleveland, O.
J. T. Slocomb & Co., Providence, R. I.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Drills, Blacksmiths', Etc.

Silver Mfg. Co., Salem, Ohio.

Drying Racks.

Gem Mfg. Co., New York.

Drop Presses.

Miner & Peck Mfg. Co., New Haven, Conn.

Dumb Waiters.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Dust Beaters.

Planet Mfg. Co., Holyoke, Mass.

Dynamos.

W. H. Elliott Electric Co., Cleveland, Ohio.

Electric Bells and Supplies.

W. H. Elliott Electric Co., Cleveland, Ohio.
John H. Graham & Co., New York.
Ohio Electric Works, Cleveland, Ohio.

Elevators.

Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg. Co., Newark, N. J.
Warner Elevator Mfg. Co., Cincinnati, Ohio.

Elevator Screens and Guards.

Harrington & King Perforating Co., Chicago.

Emery.

Hanson & Van Winkle Co., Newark, N. J.

Emery Paper.

Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Emery Wheels.

New York Belting & Packing Co., Ltd., New York.
Sterling Emery Wheel Co., Tiffin, Ohio.

Enamel.

Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Enameline.

J. L. Prescott Co., New York.

Enameling Ovens.

Union Heater Supply Co., Detroit, Mich.

Envelope and Stamp Lubricators

Pelouze Scale & Mfg. Co., Chicago.

Export Agents.

John H. Graham & Co. New York

Eyelets.

Waterbury Brass Co., New York.

Faucets.

Boston & Lockport Block Co., Lockport, N. Y.
John H. Graham & Co., New York
National Specialty Mfg. Co., Philadelphia, Pa.
Pittsburg Pump Co., Pittsburg, Pa.
John Sommer's Son, Newark, N. J

Fences, Wire and Iron.

Baker Mfg. Co., Allegheny, Pa.
E. T. Barnum, Detroit, Mich.

Files.

Arcade File Works, Anderson, Ind.
G. & H. Barnett Co., Philadelphia.
Henry Disston & Sons, Phila., Pa.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Kearney & Foot Co., New York.
Nicholson File Co., Providence, R. I.
Sickels & Nutting Co., New York.

Filters.

J. H. Seed, New York.

Fire Escapes.

E. T. Barnum, Detroit, Mich.

Flat Ware.

See Plated Ware.

Flower Pot Stands.

E. T. Barnum, Detroit, Mich.

Fly Killer.

J. F. Bigelow, Worcester, Mass.

Fodder Cutters.

Silver Mfg. Co., Salem, O.

Foundry Riddles.

Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.

Frame Pulleys.

Reading Hardware Co., Reading Pa.

Fronts for Buildings, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.

Fruit Pickers.

Edward Darby & Sons, Philadelphia.

Fruit Presses.

Enterprise Mfg. Co., Philadelphia.

Furnaces.

Hess, Synder & Co., Massillon, O.
Union Heater Supply Co., Detroit, Mich.

Furniture Fenders.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Garden Tools.

Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., New York.

Gaskets.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.

Gas Stoves.

Monarch Stove Co., Mansfield, O.

Gate, Latch and Hinge.

Burr & Houston Co., Brooklyn, N. Y.

Gauge, Butt.

Stanley Rule & Level Co., New Britain, Conn.

Gears.

T. F. Welch & Co., Boston.

Generators.

W. H. Elliott Electric Co., Cleveland, Ohio.

Glass Cutters.

H. H. Mayhew Co., Shelburne Falls, Mass.

Glue.

Baeder, Adamson & Co., N. Y. Phila., Boston and Chicago.
J. D. Johnston, Newport, R. I.

Graphite.

Jos. Dixon Crucible Co., Jersey City, N. J.

Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co, Lancaster, Pa.

Grinding Mills.

A. W. Straub & Co., Philadelphia and Chicago.

Grindstones.

Cleveland Stone Co., Cleveland.

Gummers.

E. C. Atkins & Co., Indianapolis, Ind.

Gunpowder.

E. I. Du Pont, de Nemours & Co. Wilmington, Del.
Laflin & Rand Powder Co., New York.
U. S. Smokeless Powder Co., Batavia, N. Y.

Gun Implements.

Hartley & Graham, New York.
Union Hardware Co., Torrington, Conn.
Union Metallic Cartridge Co., Bridgeport, Conn.

Halter Chains.

Bridgeport Chain Co., Bridgeport, Conn.

Hammers.

R. W. Montross, Galien, Mich.
E. S. Stiles Press Co., Watertown, N. Y.
The Scranton & Co., New Haven, Conn.
Troy Nickel Works, Albany, N. Y.

Hammocks.

I. E. Palmer, Middletown, Conn.

Handles.

Berger Bros. Co., Philadelphia.
Russell & Erwin Mfg. Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Hangers.

Hess, Snyder & Co., Massillon, O.
Ney Mfg. Co., Canton, Ohio.

Hangers, Coat and Hat.

Cronk Hanger Co., Elmira, N. Y

Hangers, Door.

Darling, Brown & Sharpe, Providence, R. I.
Cronk Hanger Co., Elmira, N. Y.
John H. Graham & Co., New York.
Lane Brothers, Poughkeepsie, N. Y.
McKinney Mfg. Co, Allegheny, Pa.
Stowell Mfg. & Fdry. Co. South Milwaukee, Wis.
Van Wagoner & Williams Hdwe. Co., New York and Cleveland.

Hardware Dealers, Agents, Etc.

Allerton, Clarke Co., New York.
John H. Graham & Co., New York.
Russell & Erwin Mfg. Co., New York.
Sickels & Nutting Co., New York.
Underhill, Clinch & Co., New York.

Hardware Specialties.

Arcade Mfg. Co., Freeport, Ill.
Berger Bros. Co., Philadelphia.
Bruce & Cook, New York.
Buchel Brush Novelty Co., New Orleans, La.
Clark & Cowles Plainville, Conn.
Edgar Mfg Co., Reading, Mass.
Enterprise Mfg. Co., Philadelphia.
Alfred Field & Co., New York.
F. I. Hall Co., Wallingford, Conn.
Hammacher, Schlemmer & Co., New York.
T. W. Houchin, New York.
A. N. Jacob, New York.
F. E. Kohler & Co., Canton, Ohio.
Geo. P. Marks & Co., New Orleans, La.
James F. Martin, Frankford, Philadelphia
H. H. Mayhew Co., Shelburne Falls, Mass.
National Specialty Co., Philadelphia.
Charles Morrill, New York.
Patterson, Harral & Gray, N. Y.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.
Wm. Schollhorn Co., New Haven, Conn.
Sickels & Nutting Co., New York.
Specialty Novelty Co., Lancaster Pa.
Surpless, Dunn & Co., New York.
Waterbury Barrel Foundry & Machine Co., Waterbury, Conn.
T. F. Welch & Co., Boston.

Harness Snaps.

Covert Mfg. Co., West Troy, N. Y.

Hasps.

McKinney Mfg. Co., Allegheny, Pa.

Hay Carriers.

F. E. Myers & Bro., Ashland, O.

Hay Forks.

F. E. Myers & Bro., Ashland, Ohio.
Underhill, Clinch & Co., N. Y.

Hay Racks.

E. T. Barnum, Detroit, Mich.

Heaters.

Edward Miller & Co., Meriden, Conn.
S. W. Owen Co., Norwalk, Ohio.
Plume & Atwood Mfg. Co, New York.

Hinges.

Bommer Bros., New York.
Th. M. Hass, New York.
F. E. Kohler & Co., Canton, Ohio.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., New York.
Stanley Works, New Britain, Ct.
Van Wagoner & Williams Hardware Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Hinges, Spring.

Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Hoisting Machinery.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Kimball Bros., Council Bluffs, Ia.
J. G. Speidel, Reading, Pa.
Storm Mfg Co., Newark, N. J
Warner Elevator Mfg. Co., Cincinnati, Ohio.

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Hones, Razor.

Alfred Field & Co., New York.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Hooks.

American Ring Co., Waterbury, Conn.
W. C. Heller & Co., Montclair, N. J.
Sargent & Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Horse Nails.

Ausable Horse Nail Co., New York.
Capewell Horse Nail Co., Hartford, Conn.
J. C. McCarty & Co., New York.
Putnam Nail Co. Neponset, Mass.

Hose Couplings.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose Menders.

F. E. Kohler & Co., Canton, Ohio.

Hose Nozzles.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Ordner Mfg. Co., Cleveland, Ohio.

Hose Pipe.

John W. Buckley, New York.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

Hose Reels.

Hartzell Novelty Works, Alliance, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Hose, Rubber.

John W. Buckley, New York
F. E. Myers & Bro., Ashland, Ohio.
N. J. Car Spring & Rubber Co. Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Ice Tools.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
Parker Ice Tool Co., Worcester, Mass.

Ice Cream Freezers.

John H. Graham & Co., N. Y.
White Mountain Freezer Co., Nashua, N. H.

Insurance.

Mutual Life Insurance Co., New York.

Iron.

Bruce & Cook, New York.

Iron Castings.

C. H. Angus, Albany, N. Y.

Iron, Perforated.

Harrington & King Perforating Co., Chicago.

Jail Work.

E. T. Barnum, Detroit, Mich.

Japanning.

C. H. Angus, Albany, N. Y.

Keys.

Geo. W. Nock, Philadelphia.

Kraut Cutter.

National Saw Co., Newark, N. J.

Lace Leather.

John C. Hagan & Co., Manchester, Va.

Ladders.

Bicycle Step Ladder Co., Chicago.
Coburn Trolley Track Mfg. Co., Holycke Mass.
F. E. Myers & Bro., Ashland, Ohio.

Lamps.

John H. Graham & Co., New York.
Edward Miller & Co., Meriden, Conn.
Ohio Electric Works, Cleveland, Ohio.
Plume & Atwood Mfg. Co., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Lamp Chimneys.

Parish & Unger, New York.

Lamp Stoves.

Plume & Atwood Mfg. Co., New York.

Lawn Fountains.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.

Lawn Mowers.

Clipper Lawn Mower Co., Norristown, Pa.
Coldwell Lawn Mower Co., Newburg, N. Y.
Enterprise Mfg. Co., Philadelphia.
Pastime Lawn Mower Co., Detroit, Mich.
Philadelphia Lawn Mower Co., Philadelphia Pa.
Supplee Hardware Co., Philadelphia.
Underhill, Clinch & Co., N. Y.

Lawn Rakes.

F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Lawn Sprinklers.

E. T. Barnum, Detroit, Mich.
F. E. Kohler & Co., Canton, Ohio.
Ordner Mfg. Co., Cleveland, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.
Pittsburg Pump Co., Pittsburg, Pa.

Lead.

Bruce & Cook, New York.

Lead Pencils.

Jos. Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Lemon Squeezers.

Berger Bros. Co., Philadelphia.
John H. Graham & Co., New York.
John Sommer's Son, Newark, N. J.

Levels.

Tower & Lyon, New York.

Lifters Automatic.

Miner & Peck Mfg. Co., New Haven, Conn.

Locks and Knobs.

Allerton, Clarke Co., New York.
American Ring Co., Waterbury, Conn.
Ames Sword Co., Boston.
Brass Goods Mfg. Co., Brooklyn, N. Y.
Champion Safety Lock Co., Cleveland, O.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Elting & Co., Saugerties, N. Y.
Alfred Field & Co., New York.
W. & E. T. Fitch Co., New Haven, Conn.
John H. Graham & Co., New York.
H. B. Ives & Co., New Haven, Ct.
James F. Martin, Frankford, Philadelphia.
Geo. W. Nock, Philadelphia.
Norwalk Lock Co., Norwalk, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New York.
Sargent & Co., New York and New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
E. S. Stiles Press Co., Watertown, N. Y.
Troy Nickel Works, Albany, N. Y.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Machinery.

A. Adamson, Akron, Ohio.
Automatic Machine Co., Bridgeport, Conn.
Crescent Emery Mills Co., Oscawana, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Miner & Peck Mfg. Co., New Haven, Ct.
E. S. Stiles Press Co., Watertown, N. Y.
The Scranton & Co., New Haven, Conn.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
J. K. Williams, Akron, Ohio.

Machinists' and Machine Works.

C. H. Angus, Albany, N. Y
T. F. Welch & Co., Boston.

Magnolia Metal.

Magnolia Metal Co., New York.

Mail Boxes.

W. C. Heller & Co., Montclair, N. J.

Mallets.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Bruce & Cook, New York.
John Sommer's Son, Newark, N. J.

Markers.

Fulton Stamp Works, New York.

Masons' Lines.

Samson Cordage Works, Boston.

Meat Choppers.

John Chatillon & Sons, New York.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Meat Cutters.

Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.

Mechanical Rubber Goods.

New York Belting & Packing Co., Ltd., New York.

Metal Patterns, Work, etc.

C. H. Angus, Albany, N. Y.

Metals, Perforated.

Harrington & King Perforating Co., Chicago.

Metallic Paint.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.

Metal Polish.

Joseph Dixon Crucible Co., Jersey City, N. J.
John Chatillon & Sons, New York.

Mills.

Enterprise Mfg. Co., Philadelphia.

Mincing Knives.

Enterprise Mfg. Co., Philadelphia.

Mining Screens.

Harrington & King Perforating Co., Chicago.

Model Making.

T. F. Welch & Co., Boston.

Mosquito Netting.

I. E. Palmer, Middletown, Conn.

Motors.

W. H. Elliott Electric Co., Cleveland, Ohio.

Moulds.

A. Adamson, Akron, Ohio.
J. K. Williams, Akron, Ohio.

Nails.

American Ring Co., Waterbury, Conn.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Pelouze Scale & Mfg. Co., Chicago.
Rockford Tack Co., Rockford, Ill.
Chas. J. Stebbins, New York
C. C. & E. P. Townsend, New Brighton, Pa.

Nail Pullers.

The Scranton & Co., New Haven, Conn.

Nail Sets.

John H. Graham & Co., New York.
Storm Mfg. Co., Newark, N. J.

Needles.

Alfred Field & Co., New York.

Nippers.

Alfred Field & Co., New York,
Charles Morrill, New York.

Nutmeg Graters.

Edgar Mfg. Co., Reading, Mass.
Specialty Novelty Co., Lancaster, Pa.

Nuts.

Union Nut & Bolt Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Office Railings

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Oilers.

Cushman & Denison, New York.
Surpless, Dunn & Co., New York.
Tower & Lyon, New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Oil Stones.

Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Oil Stoves.

Edward Miller & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., New York.

Ornamental Iron Work.

E. T. Barnum, Detroit, Mich.

Ovens.

Monarch Stove Co., Mansfield, O.
Union Heater Supply Co., Detroit, Mich.

Packing.

Gould Packing Co., East Cambridge, Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Padlocks.

Ames Sword Co., Boston.
John H. Graham & Co., New York.
Tower & Lyon, New York.

Paints.

L. D. Berger, Philadelphia.
Bruce & Cook, New York.
Jos. Dixon Crucible Co., Jersey City, N. J.

Paper Cover.

Niagara Paper Mills, Lockport, N. Y.

Pencils.

Joseph Dixon Crucible Co., Jersey City, N. J.
J. D. Johnston, Newport, R. I.

Perforated Metals.

Harrington & King Perforating Co., Chicago.

Photo-Engraving.

Otto Neuburg, New York.

Pipe Cutters.

Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.

Pipe Stocks and Dies.

Holroyd & Co., Waterford, N. Y.

Pipe Straps.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Pipe Taps.

Holroyd & Co., Waterford, N. Y.

Planes.

C. E. Jennings & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.
Tower & Lyon, New York.

Plated Ware.

Alfred Field & Co., New York.
Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Mfg. Co., Bridgeport, Conn.
Wm. Rogers Mf. Co., Hartford, Conn.

Plating, Nickel, Brass & Bronze.

C. H. Angus, Albany, N. Y.

Pleasure Wheels.

Strobel Mfg. Co., Marion, Ohio.

Pliers.

Cronk Hanger Co., Elmira, N. Y.
Alfred Field & Co., New York.

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Police Equipments.

Tower & Lyon, New York.

Polish.

John Chatillon & Sons, New York.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Portable Harness Shop.

Eugene L. Johnson, Cincinnati, Ohio.

Post Hole Diggers.

John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.

Poultry Netting.

Clinton Wire Cloth Co., Clinton, Mass.
Edward Darby & Sons, Philadelphia.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Powder.

E. I. Du Pont, de Nemours & Co., Wilmington, Del.
Laflin & Rand Powder Co., New York.
U. S. Smokeless Powder Co., Batavia, N. Y.

Power Hammers.

The Scrantón & Co., New Haven, Conn.

Printers' and Lithographers' Blankets.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Protractors.

Brown & Sharpe Mfg. Co., Providence, R. I.

Pulleys.

Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, Ohio.
Ney Mfg. Co., Canton, Ohio.
I. E. Palmer, Middletown, Conn.
Queen Sash Balance Co., New York.

Pumps.

Boston & Lockport Block Co. Boston and Lockport, N. Y.
Enterprise Mfg. Co., Philadelphia.
John H. Graham & Co., New York.
Hess, Snyder & Co., Massillon, O.
F. E. Myers & Bro., Ashland, O.
Pittsburgh Pump Co., Pittsburgh, Pa.
H. B. Rusler, Johnstown, Ohio.
Union Heater Supply Co., Detroit, Mich.

Punches.

Alfred Field & Co., New York.
Charles Morrill, New York.
Wm. Schollhorn Co., New Haven, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Railings, Brass and Iron.

C. H. Angus, Albany, N. Y.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Railroad Brasses.

Magnolia Metal Co., New York.

Rails, Barn Door.

McKinney Mfg. Co., Allegheny, Pa.

Raisin Seeders.

Enterprise Mfg. Co., Philadelphia.

Rakes.

John H. Graham & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Underhill, Clinch & Co., N. Y.

Ranges.

Hess, Snyder & Co., Massillon, O.
Monarch Stove Co., Mansfield, O.
Phillips & Clark Stove Co., Geneva, N. Y.

Rat and Mouse Traps.

See Traps.

Refrigerators.

Baldwin Refrigerator Co., Burlington, Vt.
Eclipse Refrigerator Works, Burlington, Vt.
Gurney Refrigerator Co., Fond du Lac, Wis.
Monarch Refrigerator Works, Burlington, Vt.

Refrigerator Door Fasteners.

P. J. Conroy & Co., Philadelphia.

Reels.

Hartzell Novelty Works, Alliance, Ohio.
Philadelphia Lawn Mower Co., Philadelphia.
John Sommer's Son, Newark, N. J.

Registers.

Stowell Mfg. & Fdry. Co., So. Milwaukee, Wis.

Repairing Outfits.

Brandenburg & Co., Chicago.
Enterprise Mfg Co., Philadelphia.
Eugene L. Johnson, Cincinnati, Ohio.
Root Bros. Co., Plymouth, Ohio.

Rivets.

Bruce & Cook, New York.
Clark & Cowles, Plainville, Conn.
C. C. & E. P. Townsend, New Brighton, Pa.
Union Nut & Bolt Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Roller Skates.

Tower & Lyon, New York,
Union Hardware Co., Torrington Conn., and New York.

Roofing and Roofers' Supplies.

Berger Bros. Co, Philadelphia.
L. D. Berger, Philadelphia.

Roof Trusses, Iron.

Berlin Iron Bridge Co., East Berlin, Conn.

Rubber Belting.

N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rubber Mats.

N. J. Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. Ltd., New York.

Rules.

Darling, Brown & Sharpe, Providence, R. I.
Alfred Field & Co., New York.
Stephens & Co., Riverton, Conn.
Union Nut & Bolt Co., New York.

Sad Irons.

Enterprise Mfg. Co., Philadelphia

Sand Paper

Baeder, Adamson & Co., New York, Philadelphia, Boston and Chicago.

Sand Screens.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Harrington & King Perforating Co., Chicago.

Sash Chains.

Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Sash Cord.

Samson Cordage Works, Boston.
Tower & Lyon, New York.

Sash Fixtures.

Smith & Egge Mfg. Co., Bridgeport, Conn.
Queen Sash Balance Co., New York.

Sash Locks.

Champion Safety Lock Co., Cleveland, Ohio.
Rufus E. Eggleston, New York, Philadelphia, Chicago.
Irving Eiting & Co., Saugerties, N. Y.
W. & E. T. Fitch Co., New Haven, Conn.
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Reading Hardware Co., Reading, Pa.

Saws.

E. C. Atkins & Co., Indianapolis Ind.
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National Saw Co., Newark, N. J.

Saws, Butchers'

John Chatillon & Sons, New York

Saw Sets.

E. C. Atkins & Co., Indianapolis Ind.
Alfred Field & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
Charles Morrill, New York.

Saw Tools.

E. C. Atkins & Co., Indianapolis, Ind.
Bennett Combination Saw-Tool Co., New York.

Scales.

John Chatillon & Sons, New York.
Pelouze Scale & Mfg. Co., Chicago.
Reading Hardware Co., Reading, Pa.

Scoops.

James F. Martin, Frankford, Philadelphia.
Underhill, Clinch & Co., New York.

Screens, Perforated Metal.

Harrington & King Perforating Co., Chicago.

Screen Plates, Punched.

Harrington & King Perforating Co., Chicago.

Screens, Wire.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
A. J. Phillips Co., Fenton, Mich.
Sickels & Nutting Co., New York.

Screws.

Franklin S. Miles, Philadelphia.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Screw Cutting Tools.

Holroyd & Co., Waterford, N. Y.

Screw Drivers.

John H. Graham & Co., New York.
Tower & Lyon, New York.
Tuck Mfg. Co., Brockton, Mass.

Screw Plates.

Alfred Field & Co., New York.

Scythe Stones.

Cleveland Stone Co., Cleveland, O.
Pike Mfg. Co., Pike Station, N. H.

Shade Lines.

Samson Cordage Works, Boston.

Shafts.

Hess, Snyder & Co., Massillon, O.

Shears and Scissors.

Alfred Field & Co., New York.
R. Heinisch's Sons Co., Newark, N. J.
J. Wiss & Sons, Newark, N. J.

Sheaves.

Boston & Lockport Block Co., Boston and Lockport, N. Y.

Sheet Brass.

Waterbury Brass Co., New York.

Sheet Steel.

Dunbar Bros., Bristol, Conn.

Shelf Boxes.

W. C. Heller & Co., Montclair, N. J.
Henry H. Sheip & Co., Philadelphia

Shelf Brackets.

Atlas Mfg. Co., New Haven, Conn.

Shovels.

A. J. Phillips Co., Fenton, Mich.
John Sommer's Son, Newark, N. J.
Troy Nickel Works, Albany, N. Y.
Underhill, Clinch & Co., N. Y.

Signs.

Aluminum Sign & Novelty Co., Columbus, Ohio.

Sign and Price Markers.

Fulton Stamp Works, New York.

Silver Ware.

Luther Boardman & Son, East Haddam, Conn.
Holmes & Edwards Silver Co., Bridgeport Conn.
Wm. Rogers Mfg. Co., Hartford and Norwich, Conn.; Taunton, Mass.

Single Tube Tires.

New York Belting & Packing Co., New York.

Sinks.

Pittsburg Pump Co., Pittsburg, Pa.

Sink Cleaners.

John W. Sudlow, Brooklyn, N. Y.

Skates.

John H. Graham & Co., New York.
Surpless, Dunn & Co., New York.
Underhill, Clinch & Co., N. Y.
Union Hardware Co., Torrington, Conn.

Skate Sharpeners.

Tower & Lyon, New York.
Union Hardware Co., Torrington Conn.

Skewers.

John Chatillon & Sons, New York.

Slaw Cutters.

Enterprise Mfg. Co. of Philadelphia, Philadelphia.

Solder.

Bruce & Cook, New York.

Snow Shovels.

A. J. Phillips Co., Fenton, Mich.

Spades.

Underhill, Clinch & Co., New York.

Spark Guards.

Edward Darby & Sons, Philadelphia.
Harrington & King Perforating Co., Chicago.

Spelter.

Bruce & Cook, New York.

Spoke Shaves.

Alfred Field & Co., New York.
Stanley Rule & Level Co., New Britain, Conn.

Springs.

Wallace Barnes, Bristol, Conn.
John Chatillon & Sons, New York.
Clark & Cowles, Plainville, Conn.
Dunbar Bros., Bristol, Conn.
Miller & Van Winkle Co, Brooklyn, N. Y.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., New York.
Tuck Mfg. Co., Brockton, Mass.
T. F. Welch & Co., Boston.

Spring Hinges.

Bommer Bros., Brooklyn, N. Y.
Van Wagoner & Williams Hardware Co., New York.

Stable Fixtures.

E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Stairs, Iron.

E. T. Barnum, Detroit, Mich.

Stair Nosings.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

Stamping.

Clark & Cowles, Plainville, Conn.
Cleveland Machine Screw Co., Cleveland, Ohio.

Staples.

Walter W Woodruff & Sons, Mount Carmel, Conn.

Statuary.

E. T. Barnum, Detroit, Mich.

Steel.

Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Steel Goods.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Steel Hinges, Spring.

Bommer Bros., Brooklyn, N. Y.

Steel, Perforated.

Harrington & King Perforating Co., Chicago.

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Step Ladders.
Bicycle Step Ladder Co., Chicago.

Stocks and Dies.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co., New York.
Holroyd & Co., Waterford, N. Y.
F E Myers & Bro., Ashland, Ohio.
Pittsburg Pump Co., Pittsburg, Pa.

Store Fixtures.
Hartzell Novelty Works, Alliance, Ohio.

Stoves.
Hess, Snyder & Co., Massillon, O.
T. W. Houchin, New York.
Edward Miller & Co., Meriden, Conn.
Monarch Stove Co., Mansfield, O.
Phillips & Clark Stove Co., Geneva, N. Y.
Plume & Atwood Mfg. Co., New York.

Stove Mittens.
Diamond Hardware Co., Boston.

Stove Polish.
Joseph Dixon Crucible Co., Jersey City, N. J.
J. L. Prescott & Co., New York.

Stove Trimmings.
Troy Nickel Works, Albany, N.Y.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Stove Trucks.
See Trucks, Stove.

Stones, Scythe, Oil, Etc.
Cleveland Stone Co., Cleveland, O.
Louis' Oil Stone Works, Jeffersonville, Ind.
Pike Mfg. Co., Pike Station, N. H.

Strops, Razor.
Alfred Field & Co., New York.

Structural Iron Work.
Berlin Iron Bridge Co., East Berlin, Conn.

Swings.
Dain Mfg. Co., Carrollton, Mo.

Tackle Blocks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Burr Mfg. Co., Cleveland, Ohio.
Ney Mfg. Co. Canton, Ohio.
Union Hardware Co., Torrington Conn

Tacks.
Rockford Tack Co., Rockford, Ill.

Tack Pullers.
Alfred Field & Co., New York.
F. J. Hall Co., Wallingford, Conn.

Tailors' Irons.
Union Heater Supply Co, Detroit, Mich.

Tape Measures.
Alfred Field & Co., New York.
Keuffel & Esser Co., New York.
Waterbury Brass Co., New York.

Taps and Dies.
Holroyd & Co., Waterford, N. Y.

Tiling.
New York Belting & Packing Co., Ltd., New York.
Wilmot & Hobbs Mfg. Co., Bridgeport, Conn.

Tinning.
C. H. Angus, Albany, N. Y.

Tin.
Bruce & Cook, New York.

Tin, Perforated.
Harrington & King Perforating Co., Chicago.

Tin-Plate.
Bruce & Cook, New York.

Tires Rubber.
New York Belting & Packing Co., New York.

Toilet Paper.
A. P. W. Paper Co., Albany, N. Y.

Tools.
Armstrong Mfg. Co., Bridgeport, Conn.
E. C. Atkins & Co., Indianapolis, Ind.
Cleveland Twist Drill Co., Cleveland, O.
Coes Wrench Co., Worcester, Mass.
Darling, Brown & Sharpe, Providence, R. I.
Detroit Twist Drill Co., Detroit, Mich.
Alfred Field & Co., New York.
Hammacher, Schlemmer & Co. New York.
Holroyd & Co., Waterford, N. Y.
C. E. Jennings & Co., New York.
Snell Mfg. Co., Fiskdale, Mass.
Standard Tool Co., Cleveland, O.
Stanley Rule & Level Co., New Britain Conn.
Sicke's & Nutting Co., New York.
Tuck Mfg. Co., Brockton, Mass.
Underhill, Clinch & Co., New York.
Whitman & Barnes Mfg. Co., New York, Cincinnati, Chicago, Kansas City.

Traps.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
Smith & Egge Mfg. Co., Bridgeport, Ct.
Specialty Novelty Co., Lancaster, Pa.

Trowels.
E. C. Atkins & Co., Indianapolis, Ind.
Henry Disston & Sons, Philadelphia.
Alfred Field & Co., New York.
C. E. Jennings & Co., New York.
F. E. Kohler & Co., Canton, Ohio.
National Saw Co., Newark, N. J.

Trucks, Store.
Boston & Lockport Block Co., Lockport, N. Y.
John Chatillon & Sons, New York.
John H. Graham & Co., New York.

Tubes, Seamless Drawn.
C. T. Williamson Wire Novelty Co., Newark, N. J.

Tubing.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.
Pope Tube Co., Hartford, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wilmot & Hobbs Mfg. Co, Bridgeport, Conn.

Valves.
Berger Bros. Co., Philadelphia.
F. E. Myers & Bro., Ashland, Ohio.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co., Ltd., New York.

Varnishes.
Chas. H. Gillespie & Sons, Jersey City, N. J., Glasgow, Scotland.

Vases, Flower.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.

Ventilators.
Pancoast Ventilator Co, Inc., Philadelphia.

Vises.
Armstrong Mfg. Co., Bridgeport, Conn.
Alfred Field & Co, New York.
Howard Iron Works, Buffalo, N. Y.
Pittsburg Pump Co., Pittsburg, Pa.
Tower & Lyon, New York.
Van Wagoner & Williams Hardware Co., New York.

Wagon Jacks.
Boston & Lockport Block Co., Boston and Lockport, N. Y.
Lane Brothers, Poughkeepsie, N. Y.

Wagon Umbrellas.
Sprague Umbrella Co., Norwalk, Ohio.

Washers.
Clark & Cowles, Plainville, Conn.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
Union Nut & Bolt Co., New York.
Walter W. Woodruff & Sons, Mount Carmel, Conn.

Washing Machines.
Strobel Mfg. Co., Marion, Ohio.

Watchman's Clocks.
Nans & Co., New York.

Wax Tapers and Torches.
T. W. Houchin, New York.
Union Heater Supply Co., Detroit, Mich.

Wheelbarrows.
Bryan Mfg. Co., Bryan, Ohio.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

Window Guards, Punched.
Harrington & King Perforating Co., Chicago.

Window Lines, Pulleys, etc.
Samson Cordage Works, Boston.

Window Screens.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
John H. Graham & Co., New York.
A. J. Phillips Co., Fenton, Mich.

Wire, Manufacturers.
Bruce & Cook, New York.
Dunbar Bros., Bristol, Conn.
Alfred Field & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago San Francisco.
Waterbury Brass Co., New York.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Cloth.
E. T. Barnum, Detroit, Mich.
Clinton Wire Cloth Co., Clinton Mass.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
Wright & Colton Wire Cloth Co., Worcester, Mass.

Wire Goods Manufacturers.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Estey Wire Works Co., New York.
Fuller Bros. & Co., New York.
New Jersey Wire Cloth Co., New York, Trenton, Chicago, San Francisco.
T. F. Welch & Co., Boston.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Gates, Fences and Fencing.
E. T. Barnum, Detroit, Mich.
Edward Darby & Sons, Philadelphia.
Wright & Colton Wire Cloth Co. Worcester, Mass.

Wire Lathing.
Edward Darby & Sons Philadelphia.

Wire Nails.
Bruce & Cook, New York.
Fuller Bros. & Co., New York.
C. C. & E. P. Townsend, New Brighton, Pa.

Wire Work.
Edward Darby & Sons, Philadelphia.

Woodenware.
John Sommer's Son, Newark, N.J.

Wrenches, Manufacturers.
Armstrong Mfg. Co., Bridgeport, Conn.
Best Wrench Co., Chicago.
Coes Wrench Co., Worcester, Mass.
Alfred Field & Co., New York.
John H. Graham & Co., New York.
F. E Myers & Bro, Ashland, Ohio.
Pittsburg Pump Co., Pittsburg, Pa.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Tower & Lyon, New York.

Wrought Butts.
Bommer Bros., Brooklyn, N. Y.
Reading Hardware Co., Reading Pa.

Zinc.
Bruce & Cook, New York.

Zinc, Perforated.
Harrington & King Perforating Co., Chicago.

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"A PROFITABLE MEDIUM TO ADVERTISERS."

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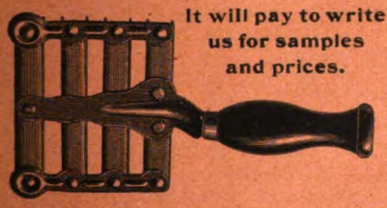
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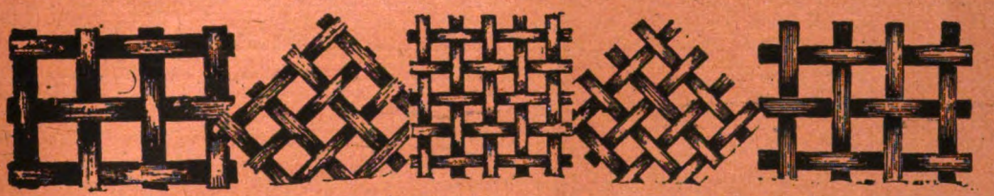
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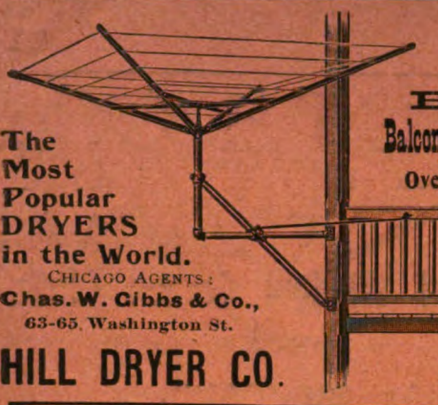


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